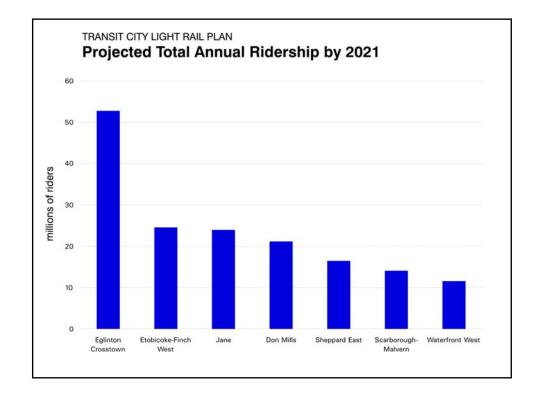
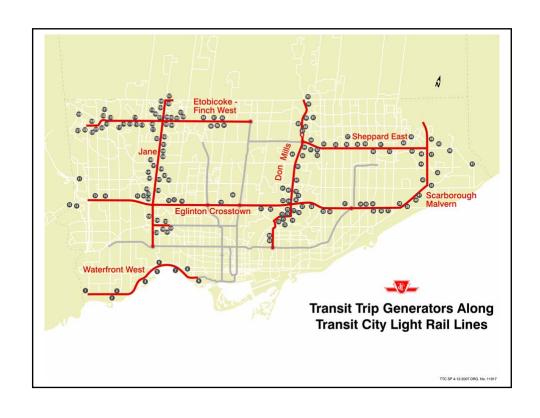
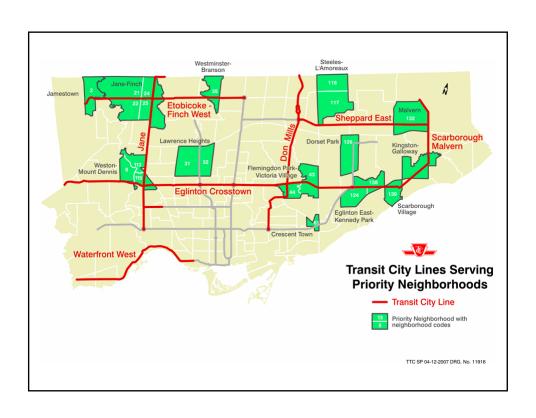
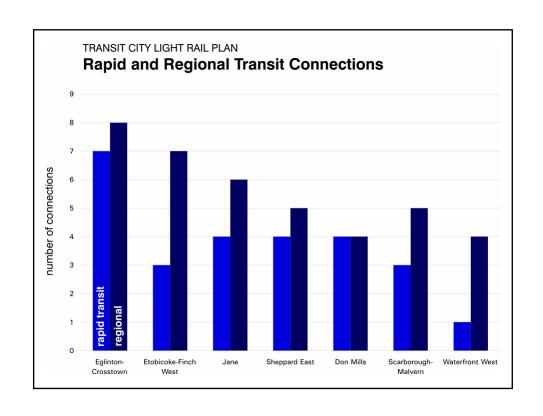


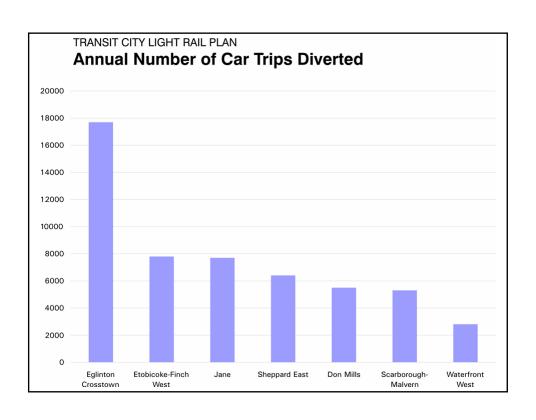
#### **DA TORONTO** Criteria for Evaluation of Transit City LRT Lines Line Performance: Ridership Environmental: Number of Car-Trips Diverted / Replaced - Existing - Projected Current Market Share / Mode Split Reduction in Greenhouse Gases New Rapid Transit Coverage, Reach Constructability, Physical Challenges: Area (hectares) Population Major Physical Challenges, Obstacles Municipal Right-of-Way Available Designated, Recognized in Official Plan Community, Political Acceptance, Support Access to Yard, Maintenance Facilities Full-time Jobs Part-time Jobs Major Generators En Route New (Annual) Passenger-Trips/Route-Kilometre Total (Annual) Passenger-Trips/Route-Kilometre <u>Capital Cost:</u>Construction, Property CostsVehicle Costs City- and Region-Building: • Supports *MoveOntario 2020* Objectives Pro-rated Maintenance Facility Costs Supports *Places to Grow* Principles Supports *Toronto Official Plan* Objectives Serves Priority Neighbourhoods Avenues – Re-urbanization Potential LRT Network Connectivity, Transfer Opportunities Local Regional Inter-Regional Connectivity Potential Potential for Extension

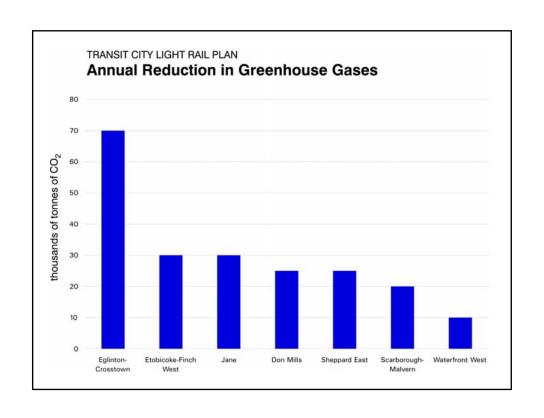


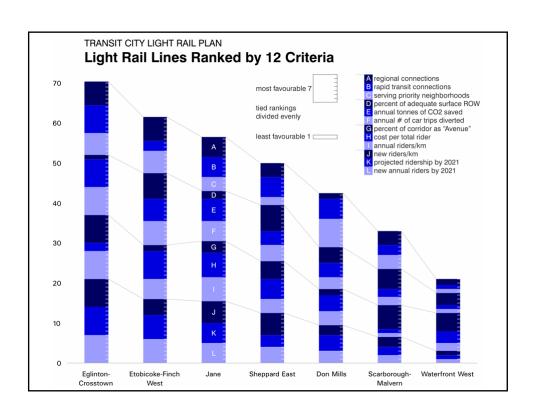












# Progress Update – Light Rail Lines and Facilities PRIORITIZATION OF LINES • report to Commission: November 14, 2007 • lines evaluated against 31 criteria • results: confirm top 3 priorities: - Sheppard East LRT - Etobicoke-Finch West LRT - Eglinton Crosstown LRT • endorsed by Commission, Metrolinx



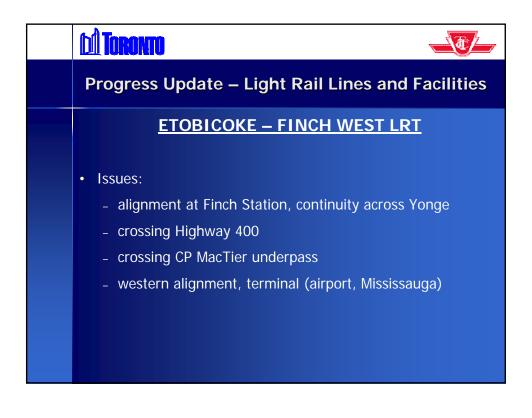
# Progress Update — Light Rail Lines and Facilities SHEPPARD EAST LRT Project Manager: Gary Carr Team: Transportation Plan, Urban Design, Transportation Services, Technical Services, Forestry, Streetcar Infrastructure, TTC Planning, Public Consultation Consultant: URS Status: - engineering feasibility complete EA Started December, 2007 - strong Councillor support



# Progress Update – Light Rail Lines and Facilities SHEPPARD EAST LRT • Issues: - customer-friendly connection at Don Mills Station - branch to Scarborough Centre? - alignment with Finch; continuity across Yonge - urban design – decisions guide other Transit City lines - business concerns about construction effects



# Progress Update – Light Rail Lines and Facilities ETOBICOKE – FINCH WEST LRT Project Manager: TBD/Ghaly Consultant: Engineering feasibility, field investigations – LEA EA, Engineering Design – Delcan Status: - engineering feasibility complete - EA start – Spring, 2008 - public meetings – Emery Village (Giambrone) - survey, geotechnical, engineering – Summer, 2008 - EA completion – Fall, 2008



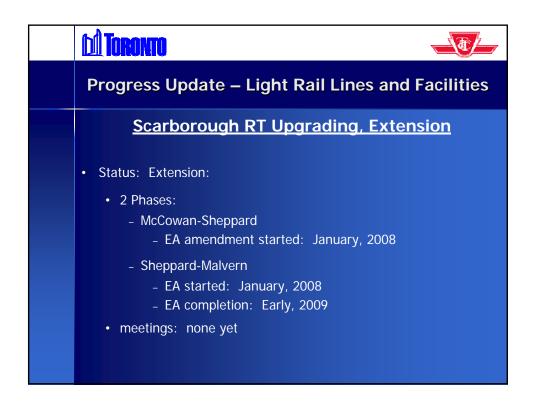




# Progress Update – Light Rail Lines and Facilities EGLINTON CROSSTOWN LRT Issues: - extent, design of underground section - interface at Spadina, Yonge, Danforth Subways - crossing CP MacTier underpass - western alignment, terminal: - airport, Renforth Gateway, Mississauga



# Progress Update – Light Rail Lines and Facilities Scarborough RT Upgrading, Extension Project Manager: Rick Thompson Consultant: Giffels, URS Status: Upgrading: Kennedy Station re-design: in progress, final Fall, 2008 dynamic envelope of longer cars – laser survey complete structural assessment, design – RFP issued, complete Summer, 2008

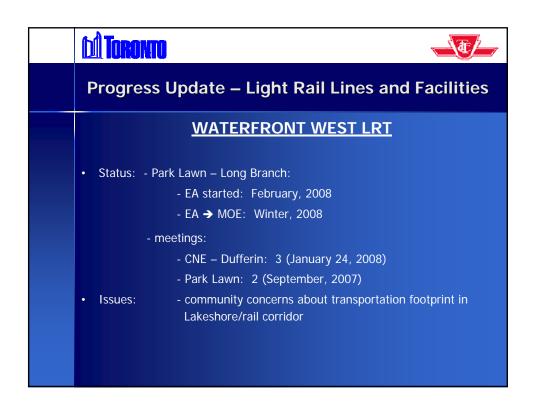


# Progress Update – Light Rail Lines and Facilities Scarborough RT Upgrading, Extension Issues: - alignment options north of Sheppard



# Progress Update – Light Rail Lines and Facilities WATERFRONT WEST LRT Project manager: Richard Nusink Consultants: LEA, Earthtech, Gartner Lee Status: CNE-Dufferin: - modify previous Waterfront West EA - preferred alignment identified - EA → MOE: Spring, 2008







# Progress Update — Light Rail Lines and Facilities DON MILLS LRT • Project Manager: Joanna Kervin • Consultant: IBI • Status: - EA re-activated after 7-month suspension - work plan revisions: - BRT → LRT - include Sheppard → Steeles - meetings: planned: - April – May, 2008 - September, 2008 - EA to Council: December, 2008



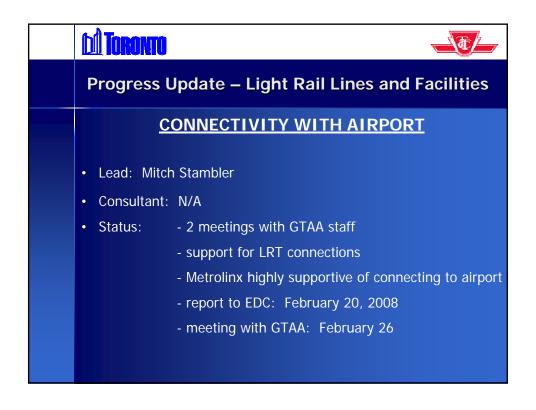






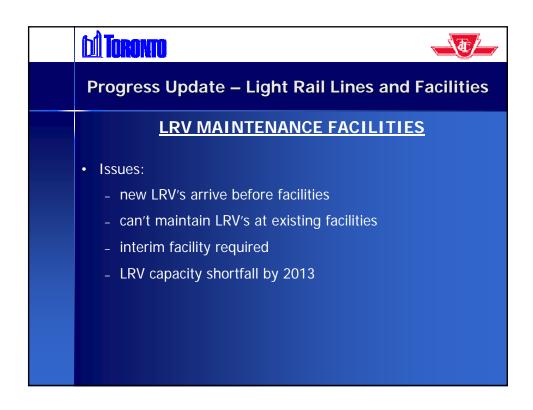


# Progress Update – Light Rail Lines and Facilities JANE LRT Issues: narrow right-of-way south of Eglinton options: tunnel, rail corridor crossing Highway 401



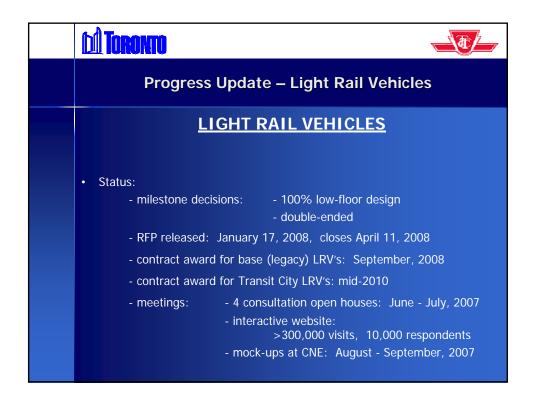
# Progress Update – Light Rail Lines and Facilities CONNECTIVITY WITH AIRPORT Issues: not currently in airport master plan no location identified for LRT terminals present focus on Blue 22 (premium service, downtown)







# Progress Update – Light Rail Vehicles LIGHT RAIL VEHICLES Project Manager: Stephen Lam Consultants: Booz Allen Hamilton – technical Blake, Cassels & Graydon – Canadian content (retired) Justice Coulter Osborne – fairness











# Progress Update – Light Rail Vehicles LIGHT RAIL VEHICLES Issues: - modifications to existing facilities for initial commissioning, testing - decisions regarding on-board fare equipment - life-cycle costing evaluation model - lack of committed funding

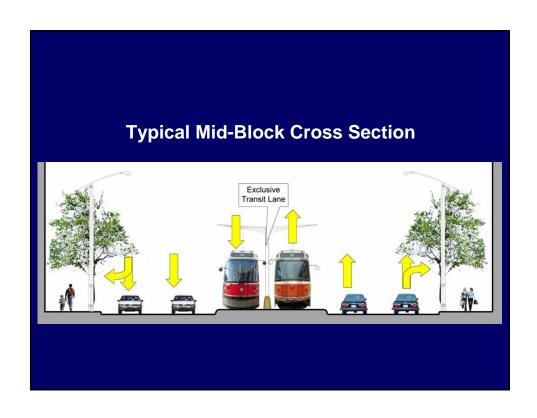






# Progress Update – Transit City Light Rail Plan Standards ACCESSIBILITY – VEHICLES AND FACILITIES • Issues: - legacy system: no room for platforms - accessibility from street level - review international best practices - retain expert consultant



















#### Progress Update – Transit City Light Rail Plan Standards

#### **FARE COLLECTION AND ENFORCEMENT**

• Project Manager: Bob Hughes

Consultant: N/A

Status: - borrowing from work on GTA (smart) farecard

- analysing pro's and con's of on-board vs. platform,

station fare transactions

- "rough-in" provision for on-board equipment in

LRV specification

- determining staffing requirements for P.O.P. enforcement over Transit City network













# Progress Update – Transit City Light Rail Plan Standards OPERATING, DESIGN STANDARDS AND CRITERIA • Signal System - Project Manager: Keith Watling • Status: - review of state-of-the-art technology complete - analysis of wayside vs. on-board signalling complete - on-board recommended: - enforcement of speed, movements, separation - safety: locking, detection of switches - centralized control - better protection with close headways - full-time train tracking

#### Progress Update – Transit City Light Rail Plan Standards OPERATING, DESIGN STANDARDS AND CRITERIA • Electrical Systems – Project Manager: Mladen Jeftic • Status: - substation spacing, design complete - AC power supply confirmed with Toronto Hydro - DC power voltage, distribution decided - overhead traction power: - centre-pole recommended over side-pole/span wire







# TRANSIT CITY LIGHT RAIL PLAN PROCESSES



# Progress Update — Transit City Light Rail Plan Processes COMMUNICATIONS: TRANSIT CITY INFORMATION BOOKLET Lead: Kevin Beaulieu Status: - booklet intended for broad distribution, including public meetings: - Transit City concept - about Light Rail technology, examples - environmental, city-building advantages: businesses, communities - construction methods, effects - public participation - photos, graphics - draft version complete



# Progress Update – Transit City Light Rail Plan Processes OFFICIAL PLAN AMENDMENTS • Lead: Gary Wright, Rod McPhail • Status: - Transit City → OP designation varies by corridor - preferable that TC lines designated higher-order/priority - requires amendments to Official Plan - City Planning undertaking necessary work

