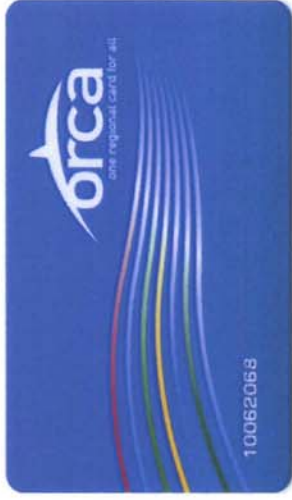


**Smart Card and
Faregate Project
Overview and
Status Update
City of Richmond
Public Works and
Transportation
Committee**

June 23, 2010

Schedule 1 to the Minutes of the
Public Works and Transportation
Committee meeting held on
Wednesday, June 23, 2010.

1. Improve operating efficiency and increase ridership through improved customer and ridership information and data
2. Create new opportunities to generate or increase revenue
3. Provide new and convenient options for customers to increase customer satisfaction
4. Improve the quality and efficiency of transit service delivery
5. Improve safety and security



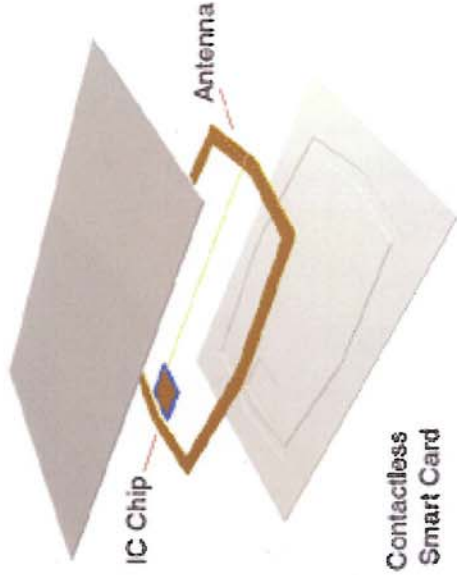
An “intelligent” card that be used for fare payment and other services

Computer chip is embedded in a credit-card size plastic card

Highly flexible - supports a range of fare products and pricing strategies

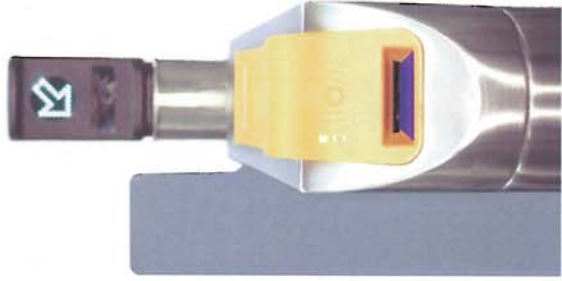
Can be printed with custom graphics and photos

Available in two types – “permanent” and “disposable”





PLATFORM
VALIDATOR



FAREGATE
READER



HANDHELD
INSPECTION DEVICE



FRONT
DOOR



REAR
DOOR

TYPICAL RAIL/FERRY READERS

TYPICAL BUS READERS



Scope

• Replace all fare collection equipment across entire TransLink network

- Expo, Millennium, Canada Lines (includes faregates)
- West Coast Express
- SeaBus (includes faregates)
- Buses (including Handy Dart, Community Shuttles)

Contractor to operate and maintain equipment and system for 10 years

• Modify stations to accommodate faregates

Budget

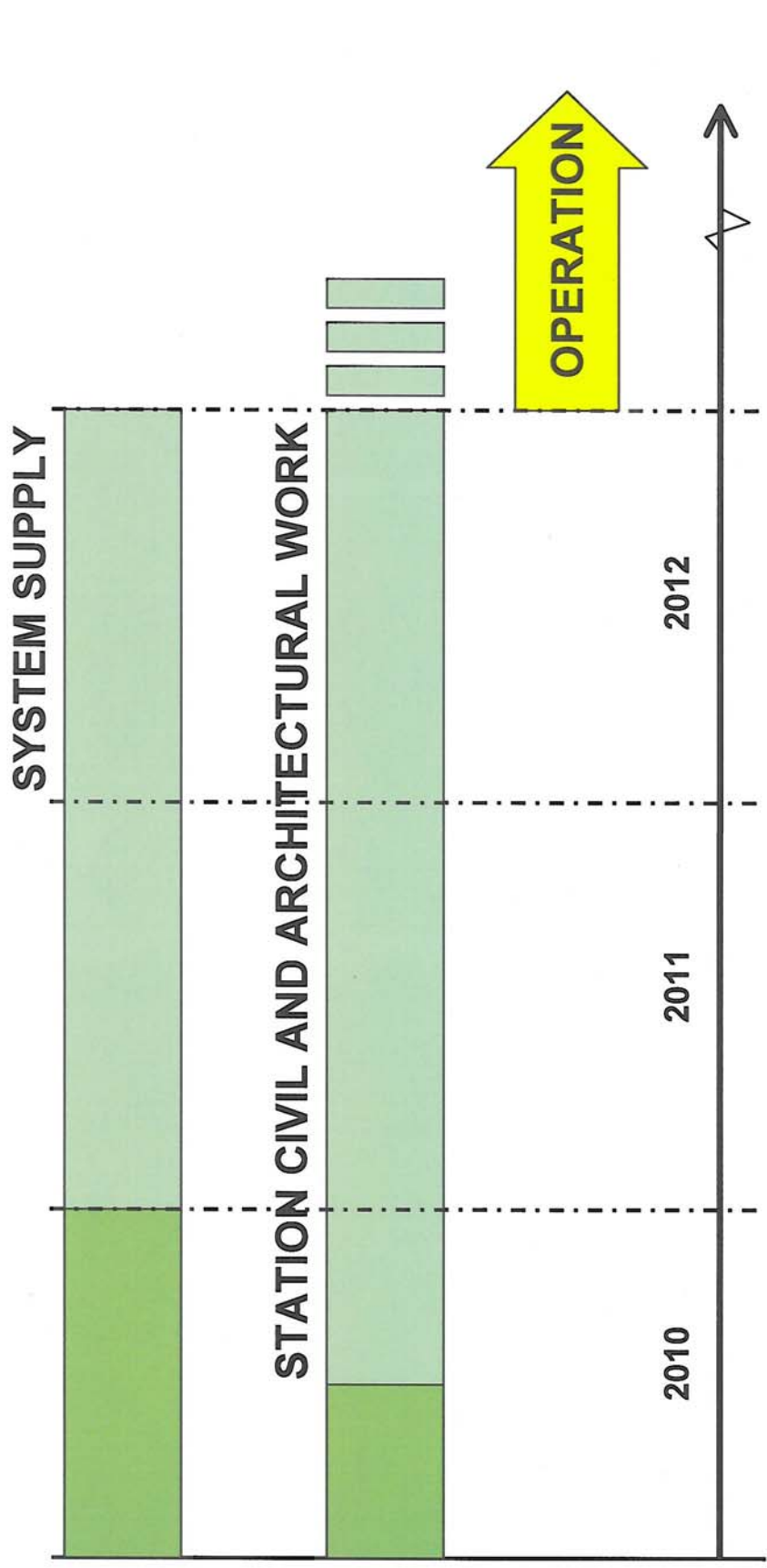
• Approved project budget is \$171.3 million with contributions from senior governments

Station Civil and Architectural Upgrades

- Millennium and Canada Lines designed for faregates – minimal upgrades needed
- Expo Line/SeaBus requires more substantial upgrades
- Because of complexity, following conventional DBB approach
- Four design packages
- Anticipate 4-8 construction packages
- Follow DAP/CAP process as agent of BC Transit (lines are a Provincial asset)

Smart Card and Faregate Systems

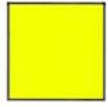
- Implement smart cards across all TransLink transit modes (bus, rail, accessible transit)
- Faregates in SkyTrain (3 lines) and SeaBus stations
- “Tag-on/tag-off” operation
 - Improve data collection
 - Inform future policy directions
 - Provide maximum flexibility
- DBOM procurement approach
- 10 years O&M after system implementation



PROCUREMENT



DESIGN &
CONSTRUCT



OPERATE

- RFQ Shortlist Announced
 - Cubic / IBM
 - Thales / Octopus
 - Serco / Parkeon
- RFP
 - Expect to issue at the end of the month
 - Preferred Proponent identified late Fall
- Station Upgrades
 - Station design modifications underway
 - Municipal review / comments as required
 - Construction on Expo and Millennium Line stations to commence next year

Thank you

TRANS LINK

