

**Transportation**  
(thousands of dollars)

(Unfunded)

PROGRAM: Transit

PROJECT NAME: SMARTBUS

11-66-1293

Group-Criteria: A-135 Projects Primarily Related To Safety

Project Manager: Stolte C.

Outcome: Shifting Edmonton's Transportation Mode

Focus: Increase transit ridership

BUDGET	Prior Years	2010	2011	2012	2013	2014	Total
Budget as Approved	-	-	-	-	-	-	-
Change	-	-	1,800	1,600	-	-	3,400
Revised Budget	-	-	1,800	1,600	-	-	3,400

**FUNDING EARMARKED FOR FUTURE EXPENDITURES**

Existing Plan Expenditures	-	-	-	-	-	-	-
Change	-	-	-	-	-	-	-
Revised Expenditures	-	-	-	-	-	-	-

TOTAL CAPITAL EXPENDITURE PLAN	-	-	1,800	1,600	-	-	3,400
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	Budget Request		Prior Years	2010	2011	2012	2013	2014	Total
Financing									
General Financing	900		-	-	900	-	-	-	900
Munc Sustain. Initiative - MSI	2,500		-	-	900	1,600	-	-	2,500
Total Financing	3,400		-	-	1,800	1,600	-	-	3,400

**Description**

This project includes funding for a 50 bus deployment and test of Automated Stop Announcements (ASA) as well as a test of the following Intelligent Transportation System functionality: Automated Vehicle location (AVL), Advanced Traveller Information System (ATIS), Computer Aided Dispatch (CAD), and Automated Vehicle Health Monitoring (AVM). It also includes integrating Automated Passenger Counters (APC) and Security Cameras on the SMARTBUS solution enabling transit control center and bus operations to monitor buses on the road. The project elements include requirements gathering, procurement of a solution to supply and install equipment on 50 ETS buses, the installation of the CAD/AVL consoles and the installation and configuration of the required back-office software hardware.

**Justification**

ASA is being implemented in several other jurisdictions in Canada (e.g. Winnipeg, Ottawa, and Toronto). ETS was an early adopter of low floor buses as well as numerous other accessibility features across the system including a fully accessible LRT with automated stop announcements. Disabled groups are advocating that the City adopt ASA on buses as a necessary feature to meet the City's goal of 'universal access'. A number of elements such as requirements gathering and procurement are similar to assess other intelligent Transportation System (ITS) functions. Therefore, this 50 bus test of SMARTBUS technology offers an opportunity to assess and trial a broader suite of ITS features for future deployment across the system. This includes real-time bus information to better inform and assist customers, to enable operations to better manage the on-road service and to deliver needed information to transit planners to improve services in the future. Meets the goal of Transportation Shift Mode and the Transportation Trend of Moving People.

**Project Cost Breakdown**

Software/Contract	\$	1,650
Equipment		750
Software Development		1,000

Last Updated: 14-JAN-2011

\$ 3,400

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## Funding Source Transfer:

The funding includes transfers of funding from two transportation capital profiles:

- 1) Transit Priority Corridors capital profile 66-1665 and
- 2) Transportation Computer Equipment and Applications 66-1420.

The actual financing sources of MSI and General Financing may change.

## Impact on Operating:

Cell charges for data transmission.

## Total Project Cost /Timing (in \$000's)

Completion Year: 2012      Total Project Costs: \$3,400      Expenditures Beyond CPP Period:

Impact on Operations	2010	2011	2012	2013	2014
Materials	-	-	20	-	-
Total Impact	-	-	20	-	-

Last Updated: 14-JAN-2011