Smart Bus Initiative - Progress Report Fall/Winter 2012

Trapeze Group has been awarded the contract to bring Smart Bus technology to Edmonton, so Edmonton Transit will be moving forward to implement Phase 1 of the Smart Bus initiative.

The first deployment of 45 Smart Buses is scheduled to go into service Spring 2013 on Edmonton Transit routes 111 and 128. Customers on these routes will have the ability to access real time bus information anytime, anywhere via the web or mobile devices. Smart Bus technology brings ETS customers increased predictability, reliability, accessibility and safety.

Riders are able to check their mobile devices or the web for real time bus locations, improving the predictability for their travel. ETS has better tools to know the exact location of buses and manage incidents, improving reliability of service. On board stop announcements improves accessibility of the system for persons with disabilities and seniors. Vehicle health monitoring and integration with onboard security cameras are elements of Smart Bus designed to improve the overall safety of the system.

Phase 1 Implementation of Smart Bus technology will include:

- **Automated Stop Announcements (ASA)**
  Audible and visual stop announcements will improve accessibility for seniors and persons with disabilities.
- **Real-time Passenger Information**
  Riders will know with certainty the arrival time of their bus and can receive automated alerts through the medium of their choice.
- **Wayside Passenger Information Signs**
  Wayside signs at U of A and WEM Transit Centres will provide real-time transit information.
- **Automated Vehicle Location System (AVL)**
  AVL will help in the event of an emergency as well as facilitating schedule adherence monitoring.
- **Computer Aided Dispatch (CAD)**
  CAD in the Control Centre will enable Controllers to better monitor transit service and manage incidents.
- **Mobile Data Terminals (MDT)**
  Onboard MDTs provide operators with electronic running boards and improved communication with the Control Centre.
- **Security Camera/Covert Alarm**
  A covert alarm will automatically trigger real-time video stream to the Control Centre, improving operator and passenger safety.
- **Mobile Dispatching Software**
  On-road supervisors will have the tools required to manage service in real-time.
- **Expandable Bus Communication Network**
  Automated passenger counters and future Smart Card solutions can be connected with the City's corporate network.

Transit ridership in Edmonton has increased 86 per cent from 2000 – 2011, thanks to the active support of City Council. This type of growth brings with it major challenges to provide

reliable service and information to our customers. And we identified the use of technology as the most efficient and effective way for ETS to meet these challenges.

We're excited about this initiative and are looking forward to bringing Smart Bus technology into Edmonton Transit.