Live Streaming Video on Metro Transit Light Rail Trains

Business Item 2020-21 SW
Transportation Committee: Jan 13, 2020
BY THE NUMBERS

25 MILES OF TRACK

210,000 DAILY TRANSIT RIDERS
of which 77,000 are LRT RIDERS

91 LIGHT RAIL CARS

LRT STATIONS by LINE:
- SHARED: 5
- BLUE: 14
- GREEN: 18
NEED FOR NEW EQUIPMENT
OBSELETE TECHNOLOGY

• Current system:
  • End of life
  • No longer supported by manufacturer
  • Standard definition
  • Requires wi-fi to upload video
  • Hard drive must be manually removed
OBSOLETE
TECHNOLOGY

Video still from current camera system.
21ST CENTURY TECHNOLOGY

• Prospective system:
  • 4K 360-view cameras
  • Extremely high resolution
  • Cellular or wi-fi to upload video
  • Cloud-based platform
  • Proof-of-concept
FUTURE TECHNOLOGY

Video still from new camera system

360-view camera that is split into 4 frames
REAL-TIME VIDEO MONITORING INCREASES CUSTOMER SAFETY & SATISFACTION

- Assess rider response to train delays
- Special event rider management
  - Safe boarding and disembarking
  - Train occupancy - how many customers can we load onto the platform?
    - Example: 15,000 riders in 45 minutes
- Train cleanliness
  - Routine cleaning
  - Incident cleanup
REAL-TIME VIDEO MONITORING INCREASES SAFETY & SECURITY FOR RIDERS

- Dispatch appropriate resources for the type of incident
  - Ambulance assistance
  - Back-up officers
  - Notification to other police agencies
- Speed of response needed
- Clearly identify vulnerable adults, homeless, victims and/or suspects prior to arrival
- 27 Text-to-Safety conversations per day
  - 70% originate on Green Line
That the Metropolitan Council authorizes the Regional Administrator to negotiate and execute a sole source contract with Hitachi Vantara Corporation for the purchase and installation of a new camera surveillance system for 91 Light Rail Vehicles for an amount not to exceed $1,300,000.
Thank you for your time!

Questions & Comments