




# Live Streaming Video on Metro Transit Light Rail Trains

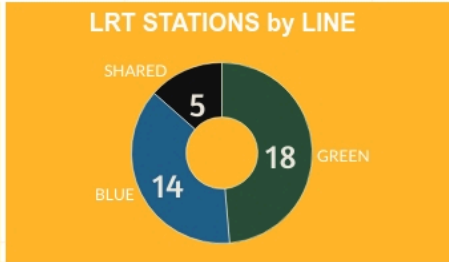


# BY THE NUMBERS

**25**  
MILES OF TRACK

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

 **91**  
LIGHT RAIL CARS



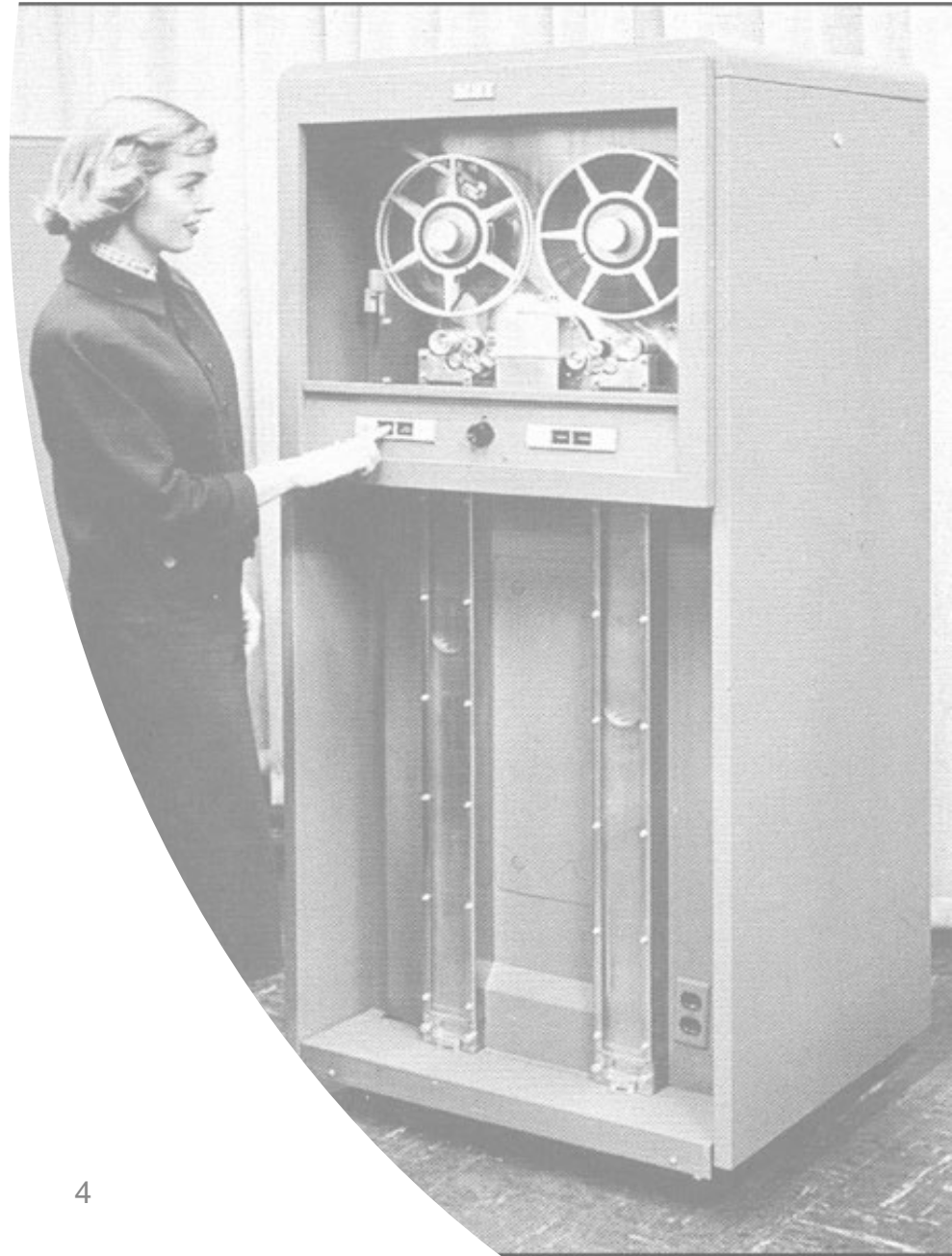
**NEED FOR  
NEW  
EQUIPMENT**



# OBSOLETE TECHNOLOGY

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- **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

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Video still from current  
camera system.



# 21<sup>ST</sup> CENTURY TECHNOLOGY

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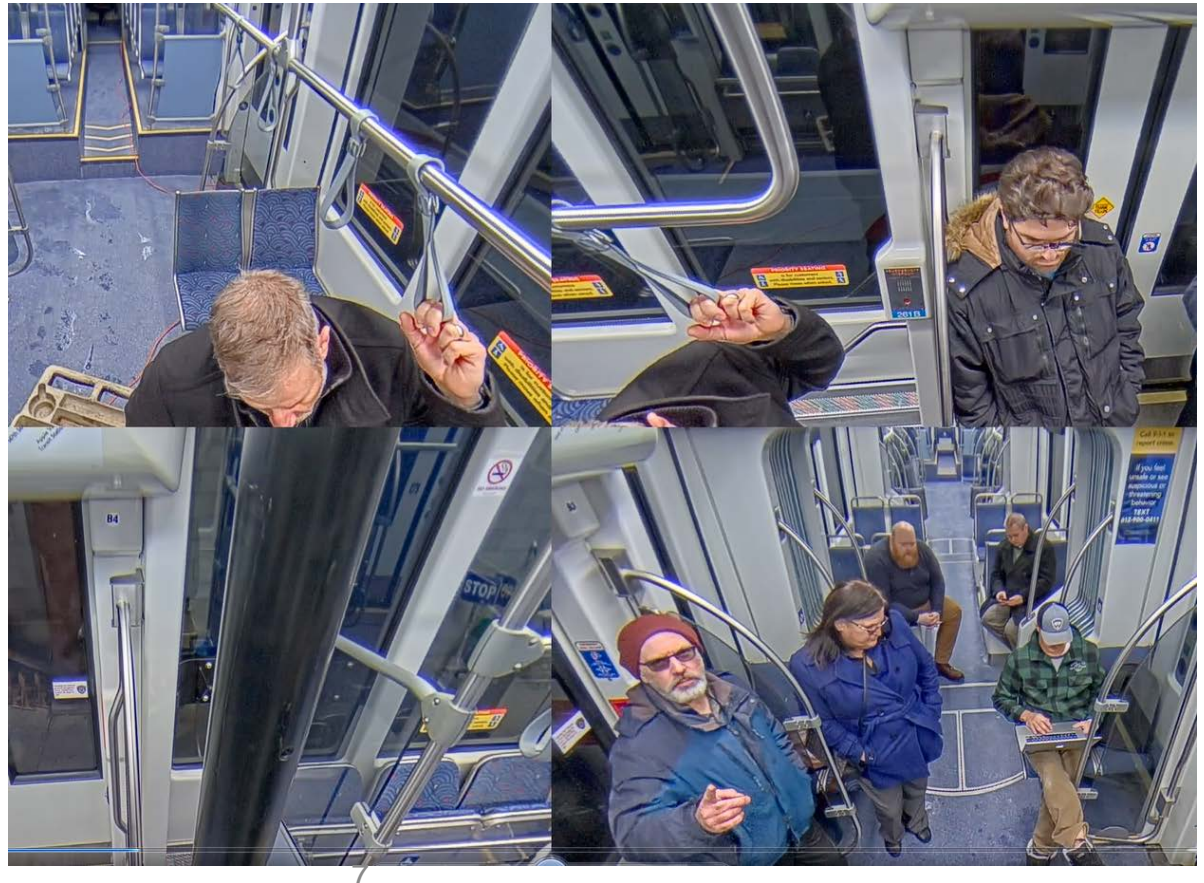
- **Prospective system:**
  - 4K 360-view cameras
  - Extremely high resolution
  - Cellular *or* wi-fi to upload video
  - Cloud-based platform
  - Proof-of-concept



# FUTURE TECHNOLOGY

Video still  
from new  
camera  
system

360-view  
camera that  
is split into 4  
frames



# Rail Operations

## 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



# Police & Public Safety

## 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*

**BUSINESS  
ITEM  
REQUEST**

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**