



**Massachusetts Bay  
Transportation Authority**

# Elevator Urine Detection Sensor Pilot

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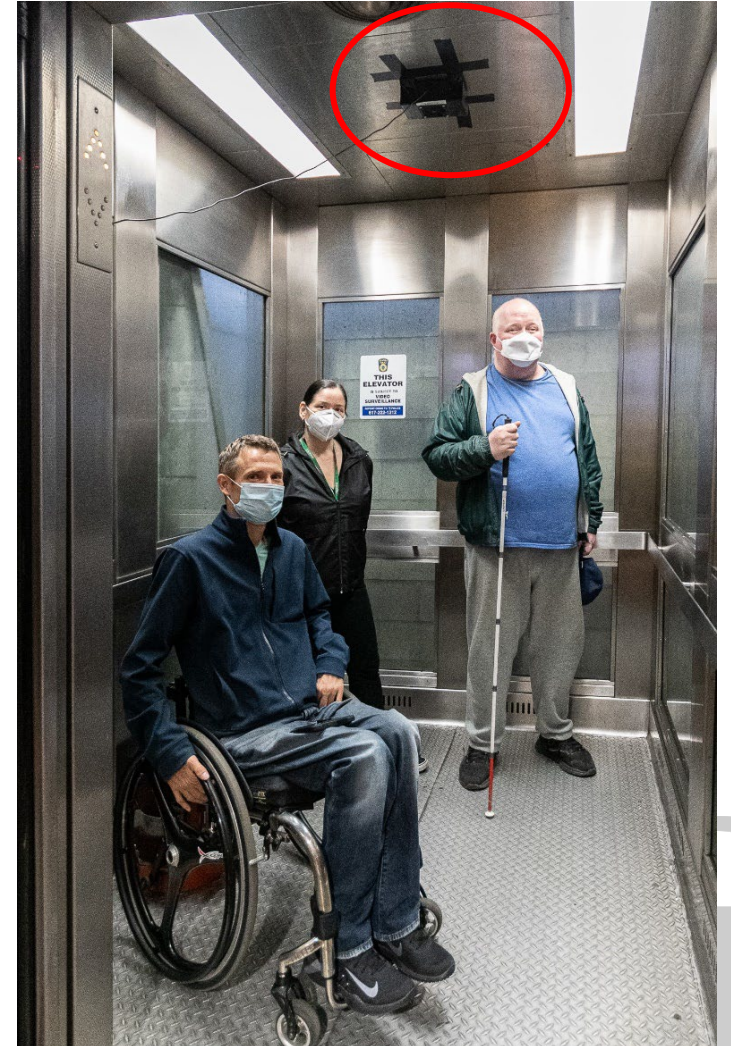
Semi-Annual Meeting – Update on Accessibility Settlement  
Hosted by Judge King

Meghan Collins

June 8, 2022

# Background

- MBTA elevator uptime is excellent, but many complaints are still filed about riders' comfort level in using them.
- An unfortunate contributing factor is that people sometimes use elevators as restrooms.
- The MBTA explored innovative ways to tackle this problem and automatic waste detection technology surfaced as a potential solution.
- In 2021, a demo of a urine detection sensor was conducted successfully, so the MBTA decided to move forward with a pilot.

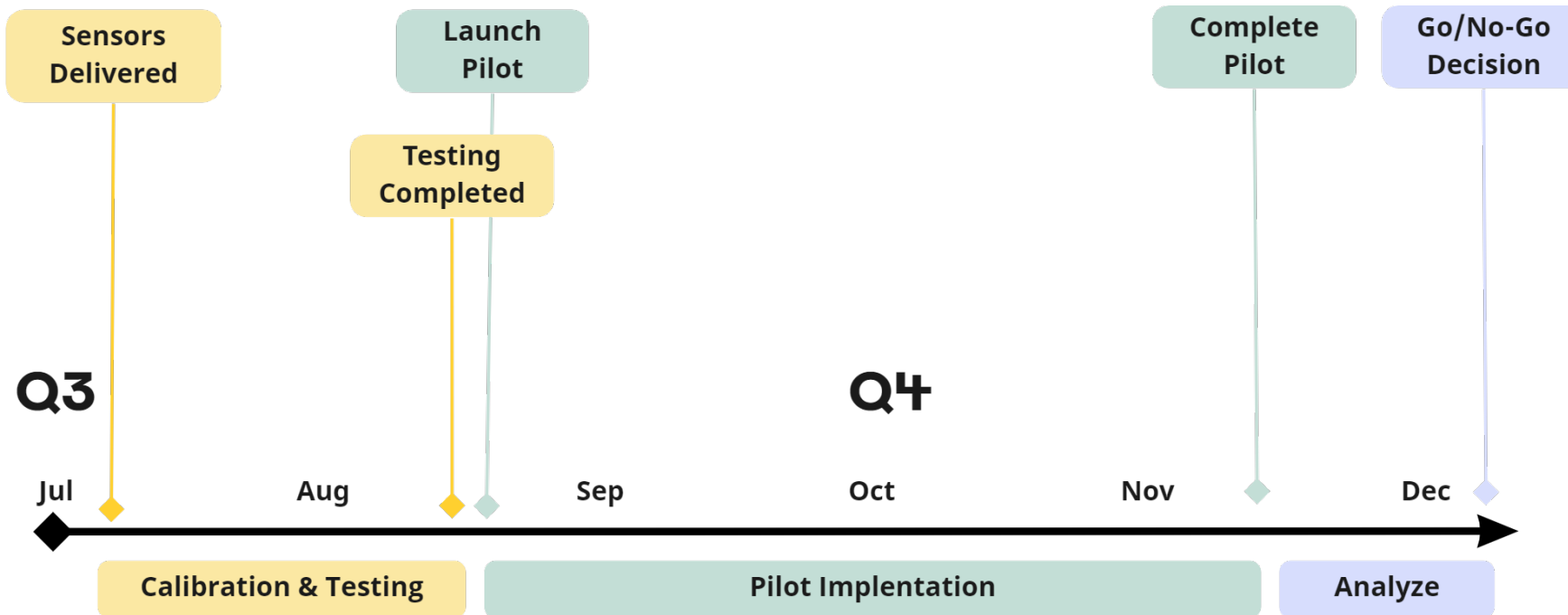


# Pilot Overview

- **Objective:** Pilot the effectiveness of urine detection sensors in elevators
  - 4 elevators in the downtown area
  - Selection of pilot elevators based on frequency of being soiled, different cab sizes and environments
  - Data will be collected from the sensors, transit ambassadors and cleaners to measure effectiveness



# Timeline



- Sensors are slated to be delivered by early July
- Calibration and testing of the sensors will take 1+ months
- Launch pilot in mid-August and collect data for 3 months till mid-November
- Analyze data and decide go/no-go to scale sensors by end of December

