



Smart Streets Pilot: Automatic Bus Lane Enforcement

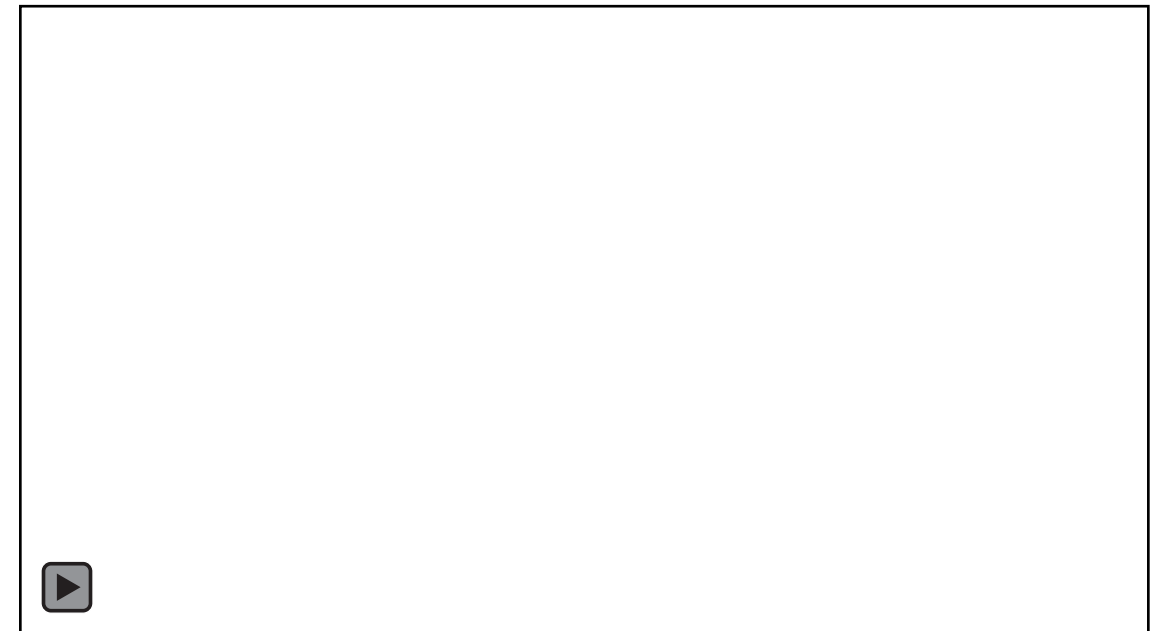
CAB Briefing
March 2025



Chicago Transit Authority

Bus lanes and bus stops require compliance to function properly

- Bus lanes and bus stops require compliance with existing parking, standing, loading, pick-up and drop-off rules to be effective
- Cars and trucks improperly blocking bus lanes and stops, cause delays and ripple through the corridor affecting buses all along the route; it also causes major accessibility issues, preventing buses from deploying their ramp
- To address this issue, many cities have turned to automatic enforcement using bus-mounted cameras:
 - New York City, New York
 - Washington, DC
 - Los Angeles, California
 - Philadelphia, Pennsylvania



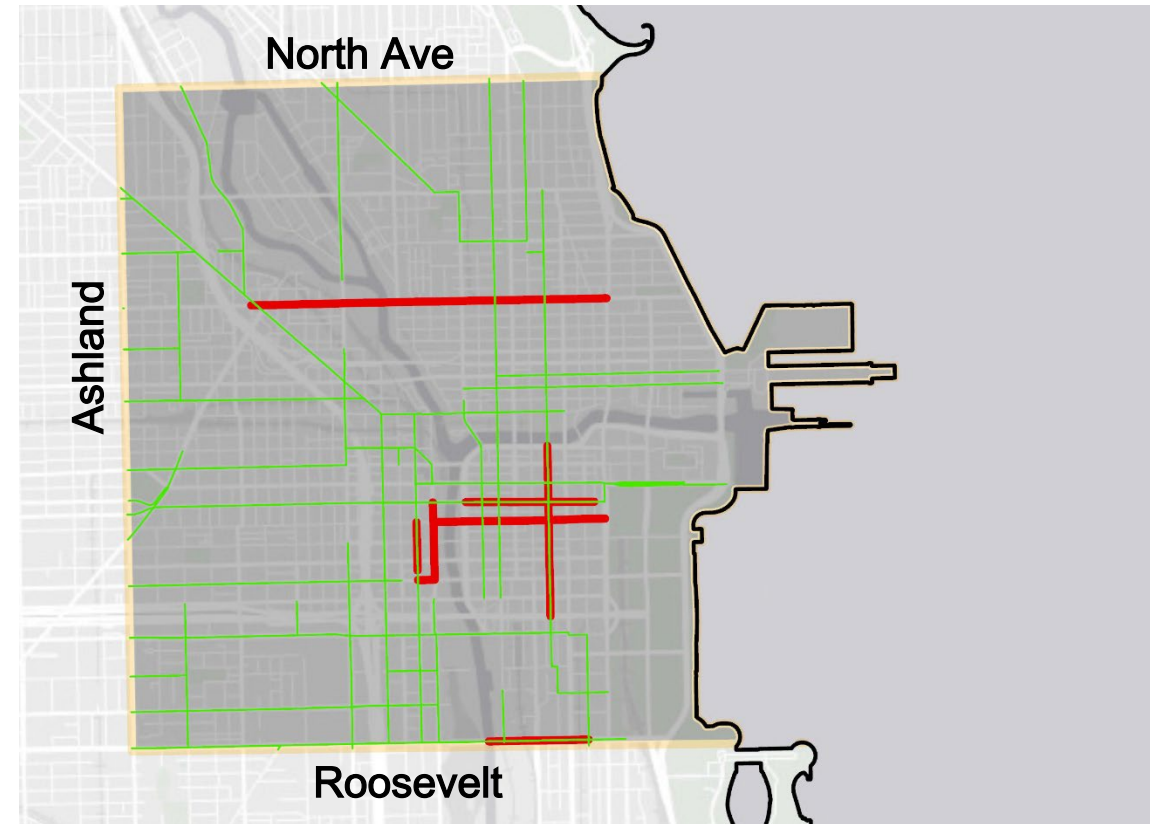
Smart Streets Pilot

Allows for camera-based parking enforcement of all bus lanes, bus stops and bike lanes within pilot area

- Cameras can be mounted on CDOT or DOF vehicles and CTA buses
- This type of automatic, camera-based enforcement was not previously allowed by the city

Pilot runs for two years from the date of the first issued ticket

- CDOT and DOF must submit a report to City Council **120 days** prior to the pilot ending



Pilot Area

Bus lane
Bike lane

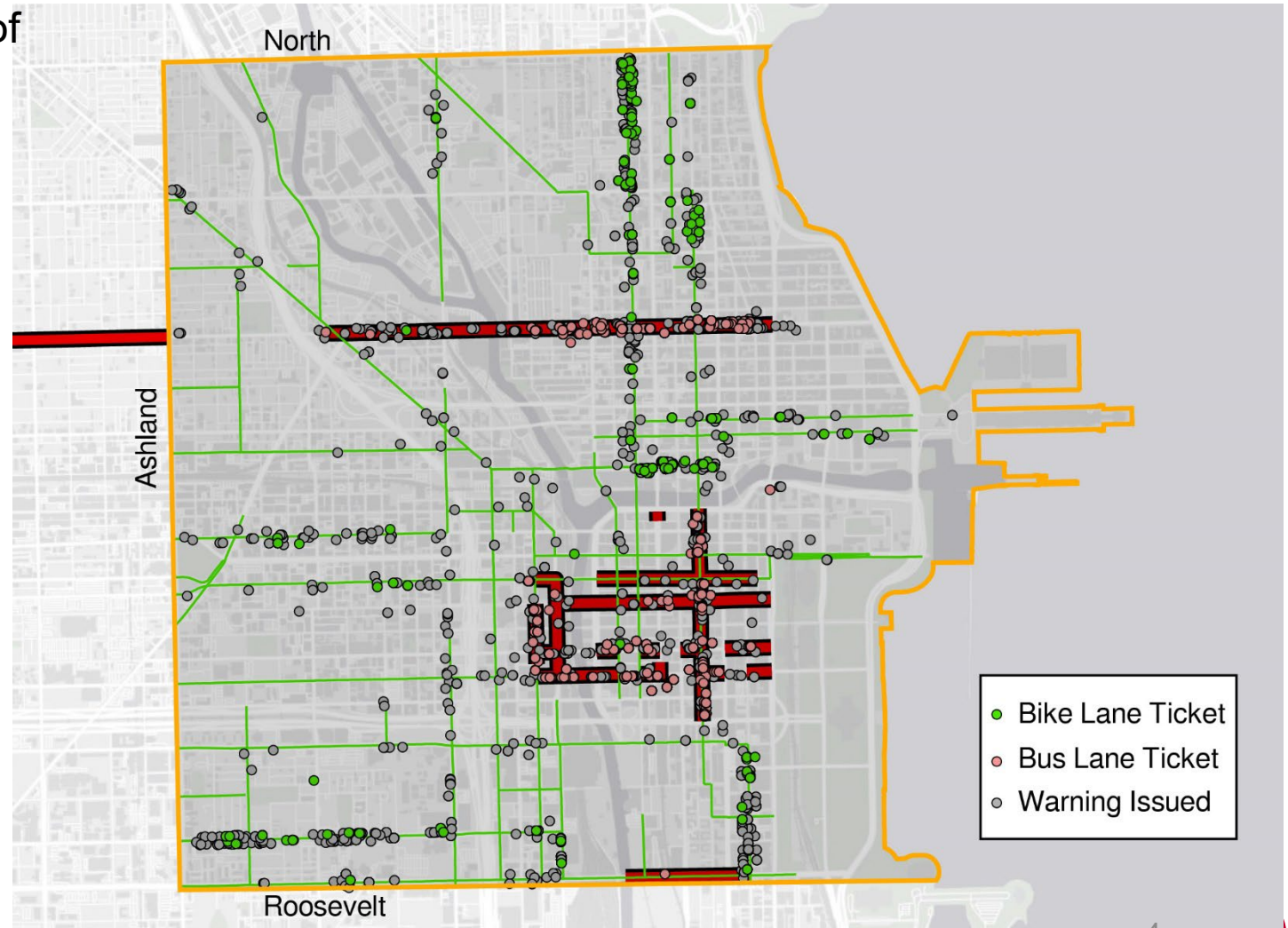
Early Results: CDOT & DOF Enforcement

Implementation began on November 4, 2024, with the deployment of eight CDOT and Dept. of Finance vehicles

In total, **6,286 violations** have been captured between 12/4/24 and 02/7/25

- 30-day warning period ended on 12/4
- On 12/5, violators were issued one additional warning, followed by a ticket
- Through this period, DOF issued:
 - 5,504 warnings
 - **596 Bus Lane** tickets
 - **186 Bike Lane** tickets

Smart Streets Pilot Violation Map

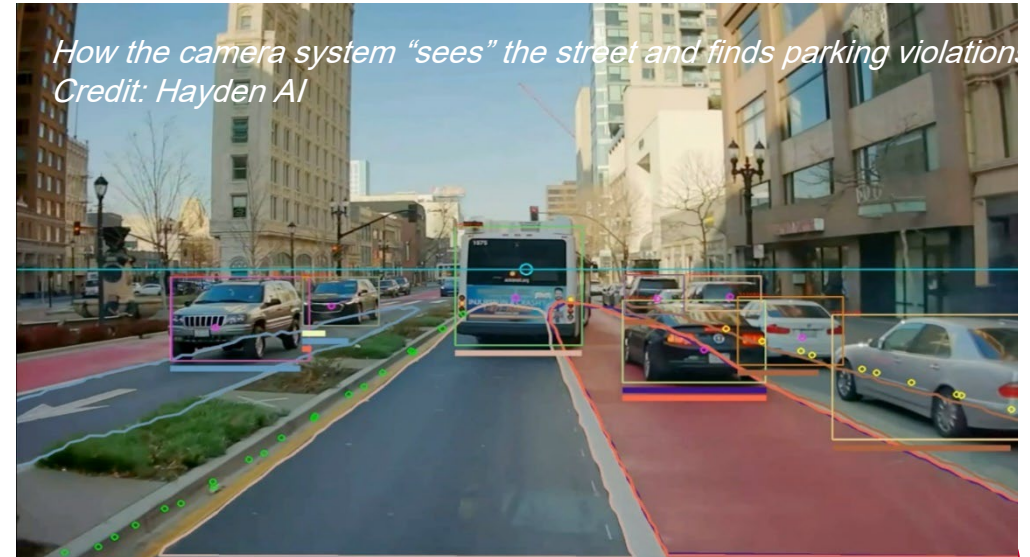


Hayden AI

CTA received Board approval for a contract a up to three-year contract with **Hayden AI** to deploy an automated bus lane enforcement system on **six CTA buses** as a pilot. (option to increase to total of 100 buses if pilot successful)

US-based company and market leader in mobile automated bus lane and bus stop enforcement

Using an on-board processor, along with two windshield-mounted cameras, the selected vendor can automatically identify and record parking violations in bus lanes and stops.

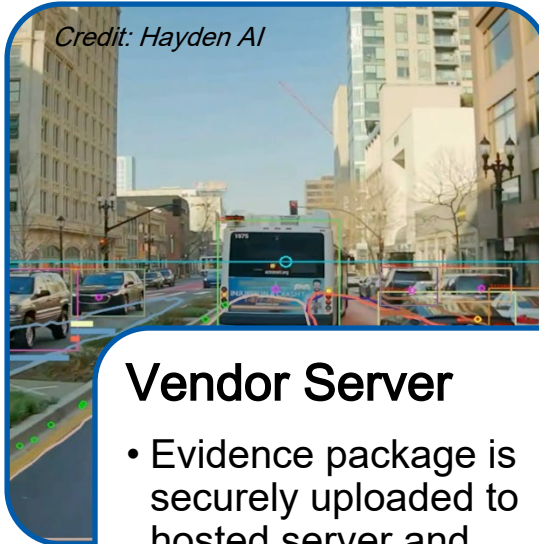


Violation Identification and Ticketing Process



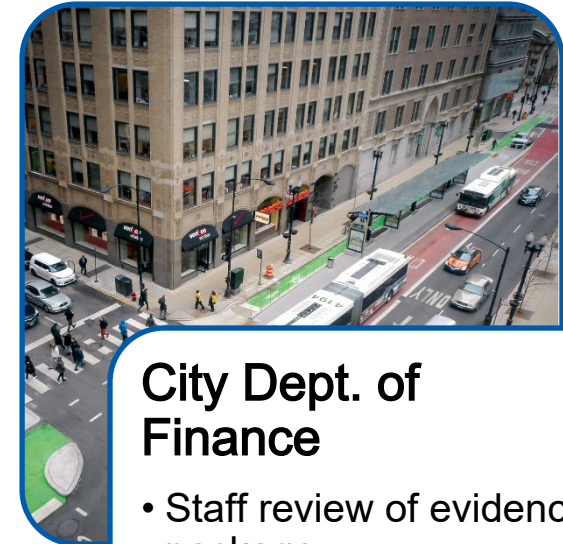
On-Bus

- On-board AI engine identifies a violation and records evidence using ALPR and context camera
- Bus location, time of day and other metrics recorded along with evidence



Vendor Server

- Evidence package is securely uploaded to hosted server and reviewed for accuracy
- If a violation is identified, system API transfers all evidence to the City's Dept. Of Finance



City Dept. of Finance

- Staff review of evidence package
- Ticket issued via mail by the City of Chicago

Timeline

- Planning and development work has already begun
- Cameras installed 60 days post-NTP; at least two months of calibrating, testing and training
- First warnings and tickets issued for violations should be captured by CTA in Q3 2025
- CTA and CDOT present outcomes of pilot to City Council no later than August/July 2026
 - City Council may vote to extend program based on pilot results