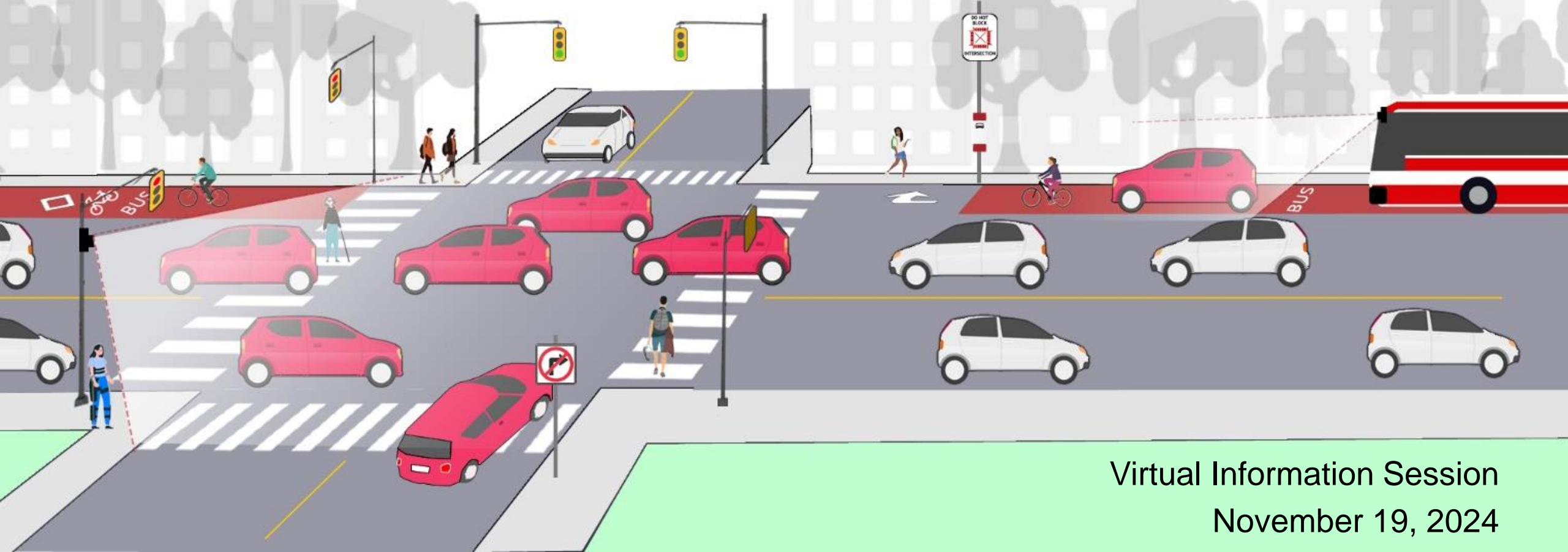# Transportation Innovation Challenge (TIC) #4: Automated Enforcement

Virtual Information Session

November 19, 2024

Welcome and introductions

Jennifer Niece
Manager

Neluka Leanage
Senior Project Manager

Strategic Policy & Initiatives
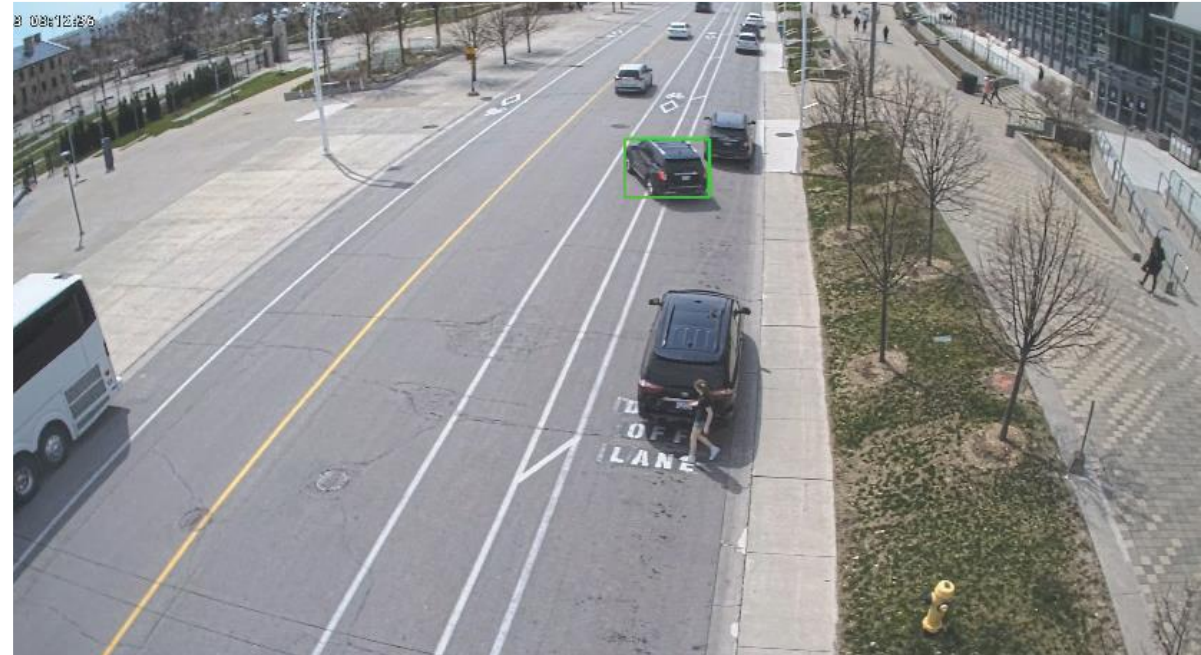Transportation Services

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Agenda

1. About the Transportation Innovation Challenge (TIC) Program

2. About the 2025 TIC on Automated Enforcement
   a) Use Cases & Learning Objectives
   b) Benefits of Participation
   c) Application process and timeline
   d) Deployment: planning and demonstration
   e) Data analyses
   f) Outcomes and next steps

What is the Transportation Innovation Challenge (TIC)
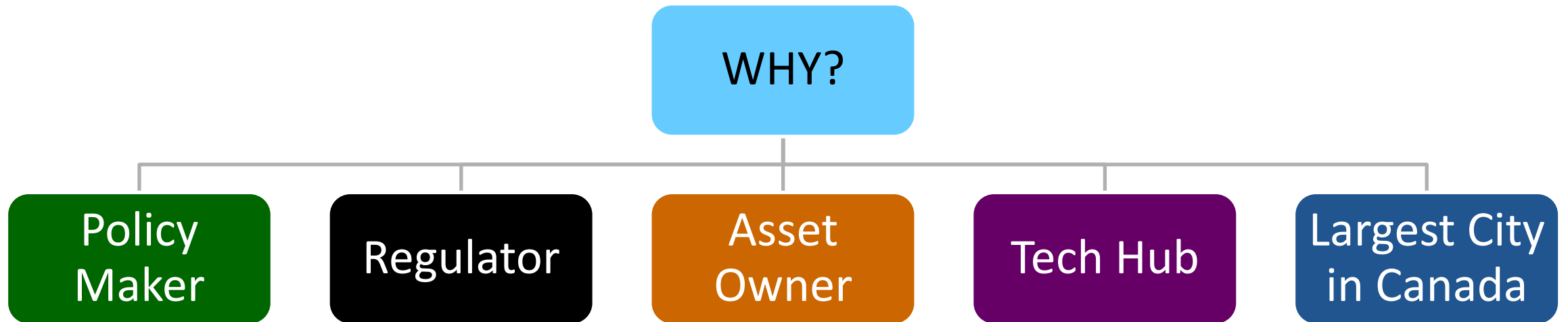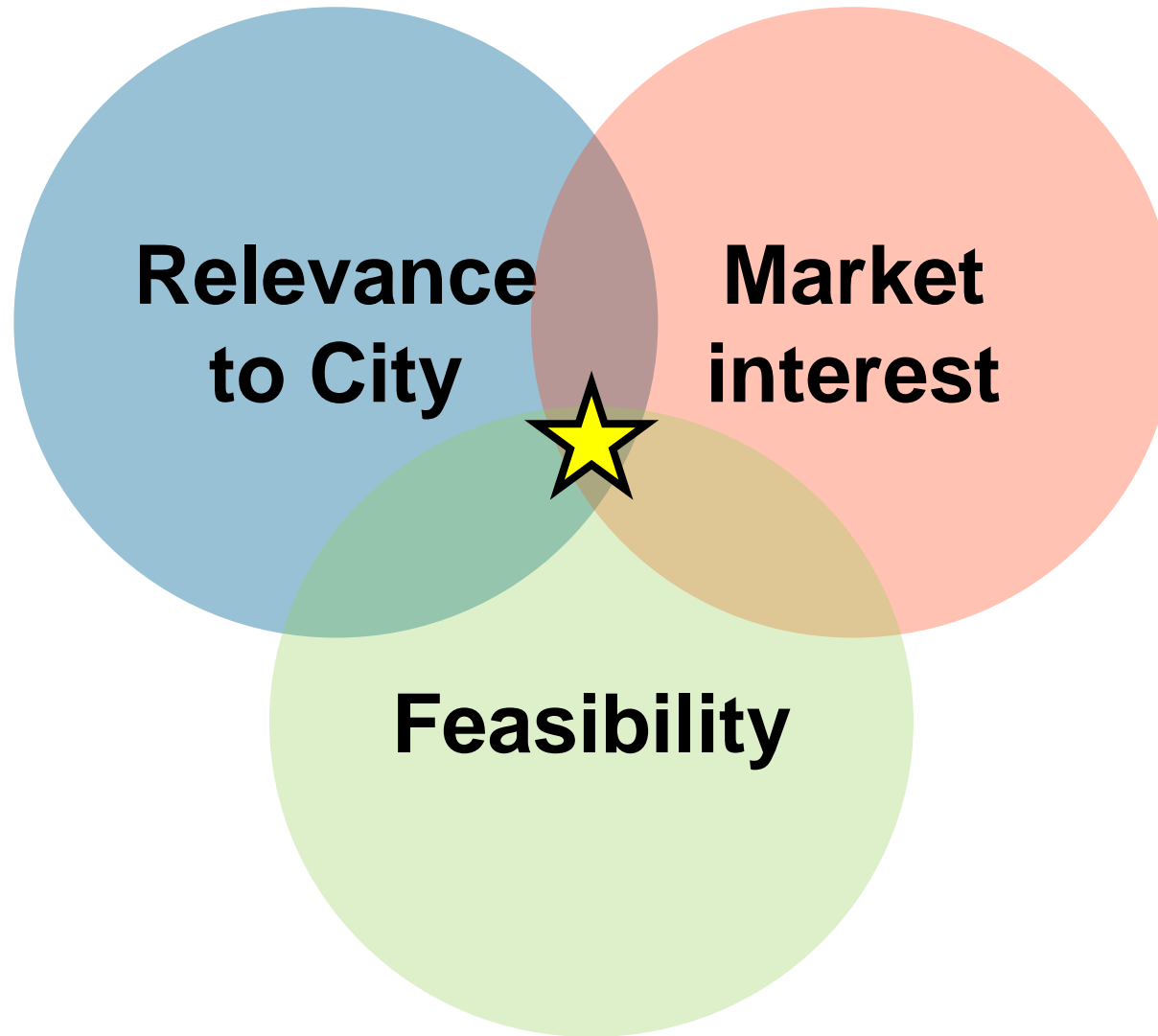

Micro-utility devices in TIC#2 (2022)

Parking sensors and curbside detection in TIC#3 (2023)

Why is the City interested in innovation?

WHY?

Policy Maker | Regulator | Asset Owner | Tech Hub | Largest City in Canada

Optimal innovation challenge theme

Relevance to City

Market interest

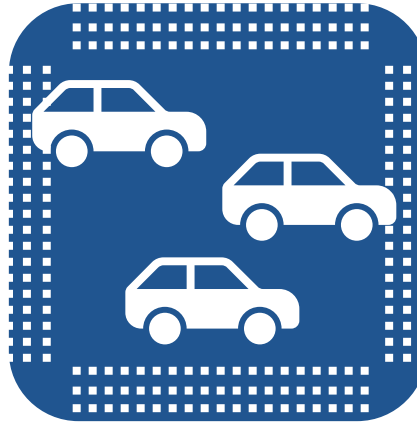Feasibility

TIC#4 – Automated Enforcement

- Connection to:
  - Congestion management
  - Road safety
  - Transit priority
- Strong market interest
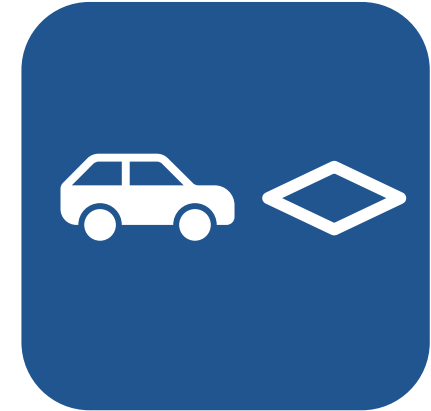- Feasible to deploy and test
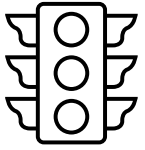
Use cases

Prohibited
movements

Blocking the
box

Travel in a bus
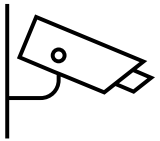priority lane

*Other AE applications possible
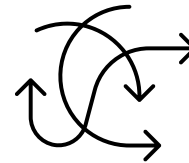
Learning objectives of the City

Confirm effective use cases

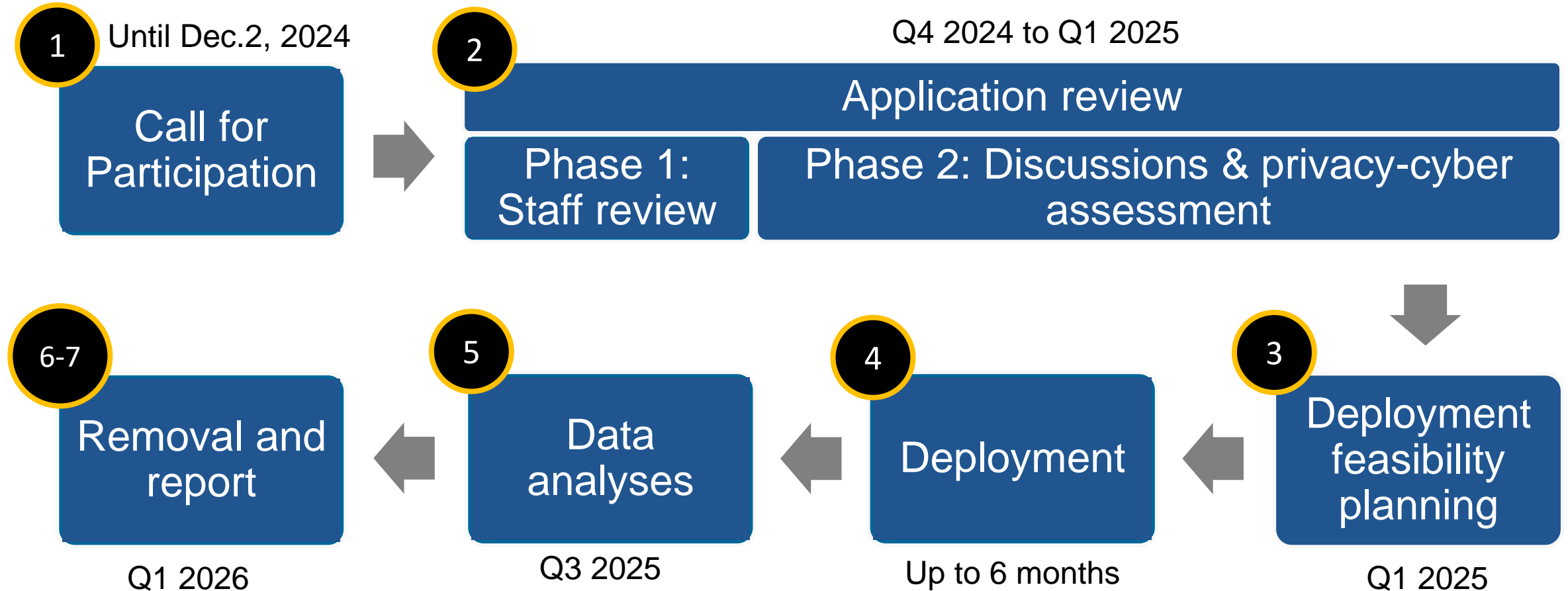De-risk legal concerns

Assess evidence from technology

Inform logistical needs

Benefits for selected Participants

- Real-world deployment

- Demonstrate your Technology Readiness Level (TRL)

- Complementary installation and removal

- Municipal feedback

- Business development and networking

- Raise the profile of automated enforcement

Timeline

1 Until Dec.2, 2024

Call for Participation

2 Q4 2024 to Q1 2025

Application review

Phase 1: Staff review

Phase 2: Discussions & privacy-cyber assessment

6-7 Removal and report

Q1 2026

5 Data analyses

Q3 2025

4 Deployment

Up to 6 months

3 Deployment feasibility planning

Q1 2025

How to apply

1 Review Call for Participation document
Apply by December 2, 11:59pm!

Online

Form-fillable PDF

Request an alternate format

Send cheque $480.48

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Application review: Mandatory requirements and checks

2

Application review between Q4 2024 to Q1 2025

Phase 1: Staff review

- Section A: Mandatory requirements
- Sections B, C, D:
  - clarity and completeness of responses
  - technology matches use cases
  - feasibility of deployment
  - minimum privacy and cybersecurity requirements met

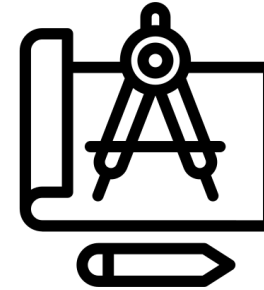### Phase 2: Discussions & privacy-cyber assessments

- Initial discussions and checks
  - evaluation of privacy and cybersecurity measures
    - privacy impact assessment
    - cybersecurity testing
    - remedies as needed

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Deployment feasibility planning

Applications satisfying both Phases of Stage 2

3

Deployment discussions with Applicant: # of devices, locations, installation feasibility

Applicant supplies technical drawings/ specifications
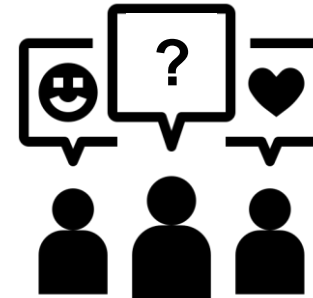
Sign Participant's Agreement

Q1 2025

Deployment and demonstration

4 Deployment and demonstration

Participant on-site for installation

Calibration and validation is expected

Demo and engage

Challenge Advisors and others

Poll: What is your preferred deployment duration?

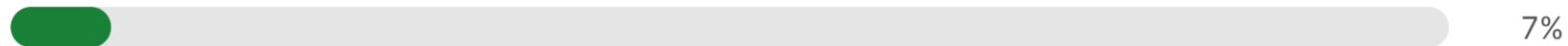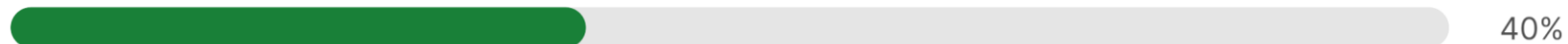Multiple Choice Poll   ☑ 15 votes   👥 15 participants

0-4 weeks - 1 vote

7%

Up to 2 months - 5 votes

33%

2-4 months - 1 vote

7%
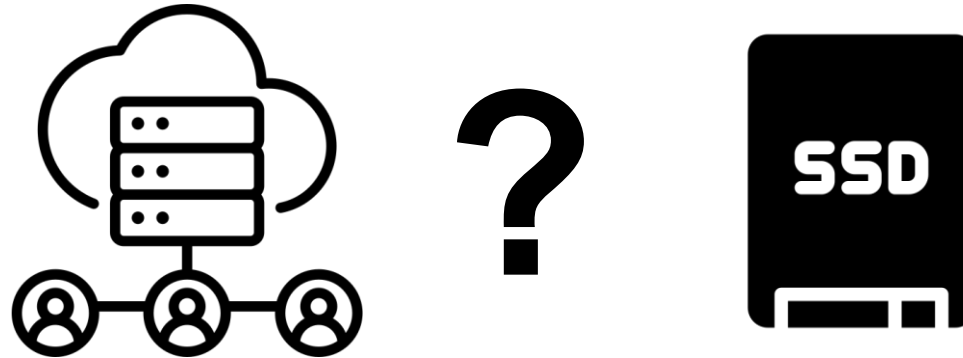
4-6 months - 6 votes

40%

No preference - 2 votes

13%

Data collection and analyses

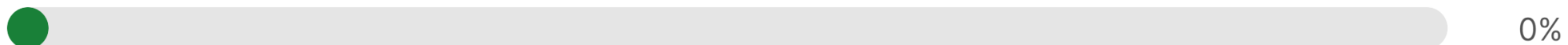**5** Data analyses by Q3 2025

6 Device removal and return

How do you intend to share data with the City?

Multiple Choice Poll   ☑ 15 votes   👥 15 participants

Internet access to cloud storage - 13 votes

███████████████████████████████████████   87%

Downloaded from hard drive and share electronically - 0 votes

●   0%

Another means - 2 votes

████████   13%

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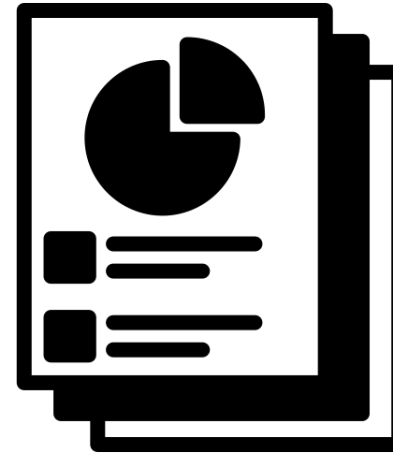
Outcomes and next steps

7 Final report and Participant debrief

Mutual feedback and lessons learned

Questions?

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