

Toronto's Automated Shuttle Trial

Ontario Smart Mobility Readiness Forum
September 17, 2020



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Transportation Innovation Zones

A real-world testing site for Toronto

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An aerial photograph of a city skyline, likely Chicago, showing a mix of high-rise buildings and lower-density residential areas. A semi-transparent white rectangular box is overlaid on the lower half of the image, containing text. Below the text box, a baseball field and surrounding park area are visible.

The **Transportation Innovation Zones (TIZ)** program will facilitate trials of new transportation approaches and technologies in the public right of way, in specific geographical areas of the City.

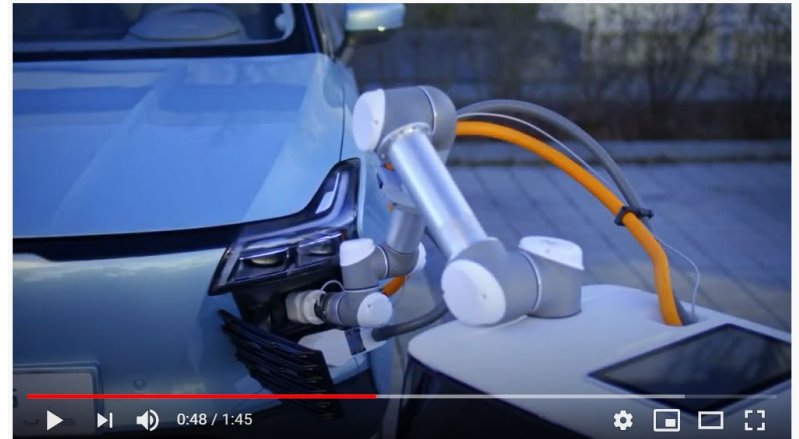
➤ Benefits to the City

1. Understand emerging technologies
2. Support economic development, especially local small & medium-sized enterprises
3. Bring together our ongoing and future testing & innovation activities
4. Support recovery & rebuild



➤ Benefits to participants/industry

1. Access to a “real-world” environment for testing
2. Demonstrate value & track record to investors, other businesses, City, public
3. ‘Pivot’ technology to respond to a post-COVID world



Meet 'CARL' – the Autonomous EV Charging Robot

➤ Transportation Innovation?

- Automated vehicles
- Smart lights and traffic sensors
- New roadway signage solutions
- Automated traffic enforcement systems
- IoT solutions for parking accessibility & enforcement
- Delivery robots
- Micro-mobility solutions
- Automated snow ploughs and mowers
- Modular streetlights / poles, sidewalks
- Materials, e.g. Silva cells
- Monitoring & counting devices

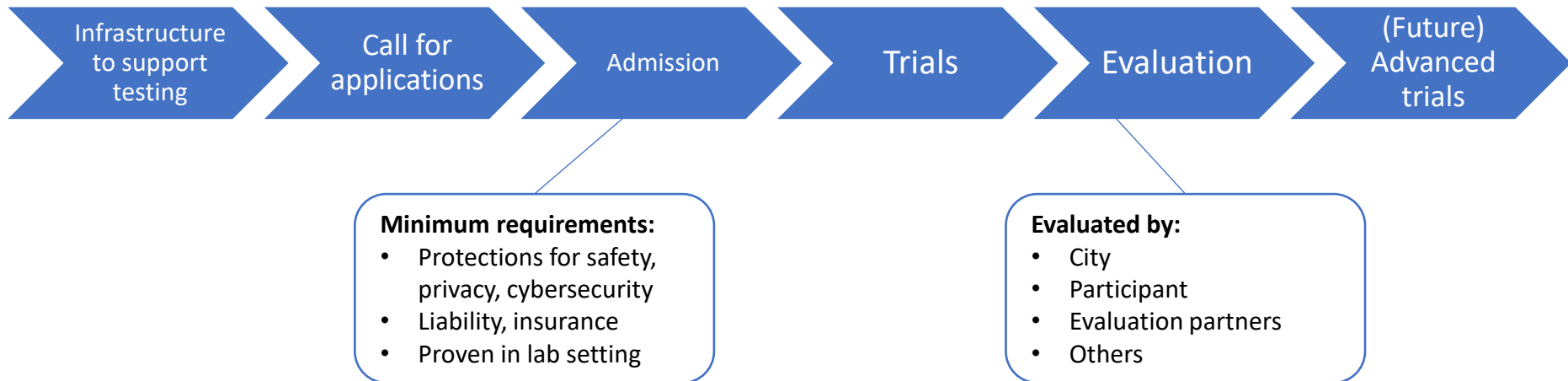
The program will target solutions at Technology Readiness Levels 4-89(Innovation Canada)



➤ Municipal innovation programs around the world



➤ Proposed process



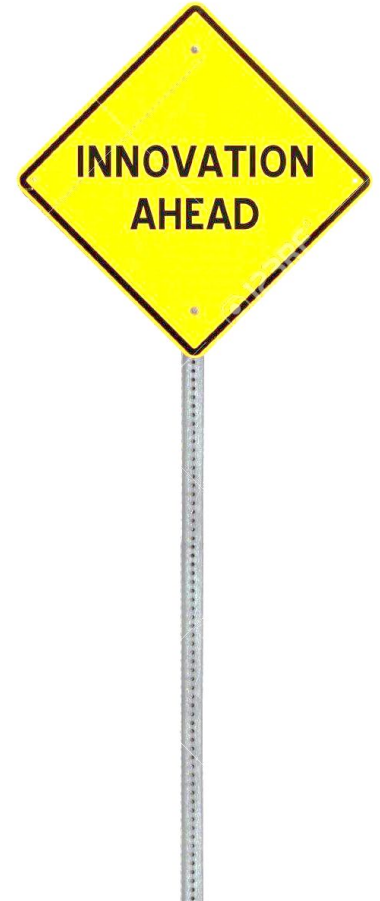
Literature scan: best practices

To ensure that the TIZ program builds meaningful relationships and brings about local economic development:

1. Co-production of knowledge and ideas with public users
2. Open collaboration between stakeholders
3. Government support and management
4. Open and flexible project design to respond to changing market demands
5. Clearly defined purpose with achievable and measurable outcomes
6. Evaluation processes as an integral part of TIZ management and operations

➤ Timeline

- | | |
|---|------------------|
| • Stakeholder Engagement Round 1 | Sep-Dec 2019 |
| • Framework Draft | Jan-Feb 2020 |
| • Stakeholder Engagement Round 2 | Fall 2020 |
| • Partnership Development | Summer/Fall 2020 |
| • Recommend TIZ Framework to City Council | Q3/4 2020 |
| • Launch First Zone | Q3/4 2020 |
| • Annual Evaluation Report | 2021 |



Questions?

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