

Vaughan Smart City Task Force (SCTF): Project Idea from Alectra

The City of Vaughan's Smart City Vision

Vaughan will become a leading, exciting and resilient smart city through collaborative transformation that enhances quality of life for all residents.



Project characteristics:

- Vision Ideas should be bold, creative and tackle the City of Vaughan's challenges
- Impact Ideas should have the potential to significantly improve citizens' lives
- Implementation Ideas should have a viable path within a 5-year timeframe
- Unique and Transferable Ideas should be new and repeatable in another municipality



The Idea and The Problem

Leverage Alectra's Advanced Metering Infrastructure (AMI) for smart municipal services with customer experience (CX) at heart



How does the smart city deliver value that is experiences by the customer/citizen?

 Solutions would apply digital technologies (sensors and communication networks) combined with a thoughtful customer experience-focused design to have a positive impact on how people live, work, and play in Vaughan

How can municipal services be enhanced when they are "smart"?

- Enhanced efficiency
- Urban problem solving
- Cost reduction
- Better living conditions



Applications and Implementation















What makes this idea innovative? Focus on the **Customer Experience (CX)**

- Customer experience is key and is a foundation for all smart city capabilities
- All capabilities will be measured against the customer perception and experience
- Municipalities are already investing in digital transformation which is a component of the overall customer experience
- For technology deployments, customer experience is key
- Alectra is making significant investments in the areas of customer experience and how we interact with our customers
- Combined efforts create valuable smart municipal services for our shared customer and citizen base
- Shared costs and risks together with mutual brand enhancement
- Leverage existing networks and investments wherever possible





Use Cases

Next generation AMI networks can power digital services that encourage diverse economic participation to deliver value to the community.

Lighting	Transportation	Economic Development	Emergency Response	Health	Public Safety
 Outage monitoring Dimming Adaptive lighting and colour controls Emergency response lighting 	Smart parkingEV chargingTraffic signal coordinationAdaptive lighting	 Community Wi-Fi Digital signage Building retrofits 	 Lighting guidance Water/snow level/ drainage detection 	 Air quality CO2 detections 	 Video surveillance Push-to-talk system Intrusion detection Gunfire detection



Additional Use Cases













