

SMART CITY TASK FORCE – SEPTEMBER 14, 2021

COMMUNICATIONS

| Received at the meeting | | | |
|-------------------------|---|---|--|
| C1. | Presentation material titled: "Project Idea from Alectra" | 1 | |

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Communication : C 1 Smart City Task Force September 14, 2021 Agenda Item # 1

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

September 14, 2021

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





4

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 parking EV charging Traffic signal coordination Adaptive 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



