

Re: Item No. 13.1

Smart City Halifax

“A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects”

- International Telecommunication Union (ITU) and United Nations Economic Commission for Europe (UNECE)

HALIFAX

1

HALIFAX

Halifax Connected - Smart City Plan

Corporate and Customer Services Presentation
ICT Strategy and Delivery

July 18, 2017

Version 1.2

Agenda

- What can Smart Cities Do?
- Jurisdictional Scans
- Halifax - Areas of Focus (Current)
- Federal Smart Cities Challenge
- Opportunities
- Approach

HALIFAX

3

What can Smart Cities Do?

Smart cities have the potential to improve every aspect of community life –

- how people move around,
- how they live and play,
- how they earn a living,
- how they learn and are empowered to participate in society,
- how they interact with the natural environment, and
- how they create safe and secure public spaces.

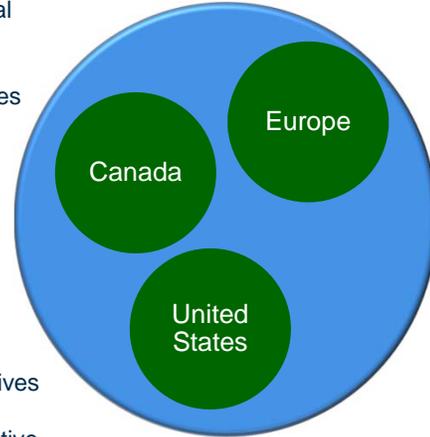
HALIFAX

4

Jurisdictional Scan

Consistent trends have emerged for Smart Cities

- ✓ Convenient, seamless citizen-access to high value municipal services
- ✓ Strategic investments made in extendable smart technologies and infrastructure
- ✓ Inclusive access to digital services
- ✓ Greater emphasis on BI data for decision making purposes
- ✓ Increased transparency and innovation through open data
- ✓ Innovation through exploration of public and private partnerships for funding and implementing Smart City initiatives
- ✓ Better and innovative Smart City planning through collaborative partnerships with institutions, business, vendors, other levels of government



HALIFAX

5

Jurisdictional Scan - Highlights



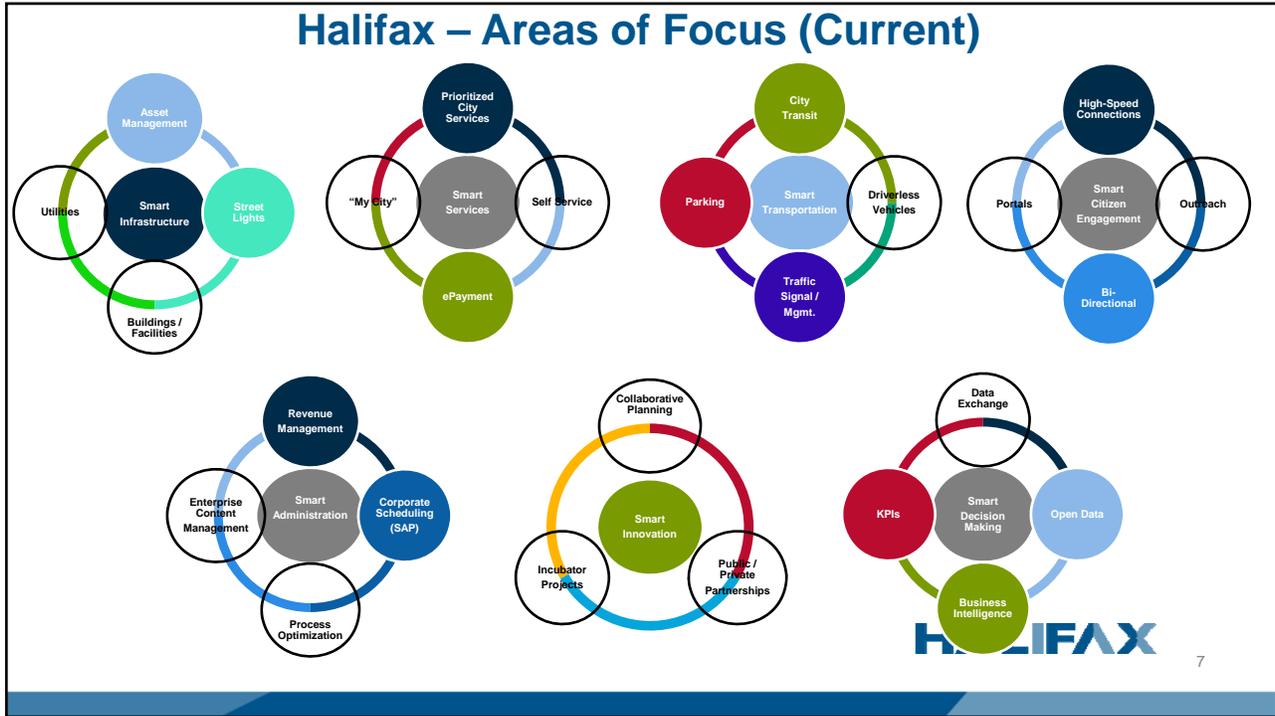
- Moncton:**
 - Smart parking
 - Partnerships (Fibre-op)
- Toronto:**
 - Smart transportation
 - Public transit
 - Open data
- Mississauga:**
 - Fiber-op network
 - Public transit
 - Public outreach
 - Partnerships
- Kitchener:**
 - eServices
 - Incubator projects
 - Citizen portals
 - Public transit



- New York**
 - IoT Leader
 - Connectivity
 - Innovation
 - Safety
 - Partnerships
- Boston:**
 - Smart streets
 - Hubway (Bike share)
 - Self-driving cars
 - Outdoor wireless ntwk
 - Security / Video Analytics
- Columbus:**
 - US Smart Cities winner (DOT)
 - Integrated data
 - Parking solutions
 - Street lighting
- San Francisco:**
 - Smart transportation
 - Parking solutions
 - Streetlight management



- London:**
 - IoT Leader
 - Collaborative planning
 - Innovation partners
 - Open Data
 - Energy & Utilities
- Barcelona:**
 - IoT Leader
 - Innovation Opportunities
 - Energy & waste mgmt.
 - Smart Water Mgmt.
 - Partnerships (Bus/Tech)
- Berlin:**
 - Collaborative Planning
 - Data & Bus. Intelligence
 - Energy & Utilities
 - Smart Administration
 - Smart Infrastructure



Federal Smart Cities Challenge

To encourage cities to adopt new and innovative approaches to city-building, the Government proposes to provide Infrastructure Canada with \$300 million over 11 years to launch a Smart Cities Challenge Fund.

Federal Smart Cities Challenge

- Is merit-based,
- Pan-Canadian,
- Cities of all sizes, as well as
- Indigenous communities

HALIFAX

9

Federal Smart City Phases

Halifax is currently aware of the following challenge phases:

- Phase 1 - Problem Definition
 - Municipalities will be invited to work with a whole range of stakeholders to identify a significant challenge to address using technology; potential for multiple prize categories.
 - 3-5 finalists will be selected.
 - Partnerships with other communities are welcomed.
- Phase 2 - Business Proposal
 - Finalists will receive grants to develop full business plans for project implementation.
 - In-kind data and measurement support from Infrastructure Canada will be provided as part of the process.
 - Projects must be able to report on the benefits to their communities, and how lessons learned may be applied elsewhere.
- Phase 3 - Winner Selection.
 - Winners will be selected from the business proposal finalists group.
 - (it is hoped) Finalists who didn't win will be able to pitch their projects to other funders, including other federal departments.

HALIFAX

10

Prizes

- one large prize of \$50 million;
- two prizes of \$10 million for mid-sized communities;
- one prize of \$5 million for a small community; and
- one prize of \$5 million available for an Indigenous community.

Specifics around the eligibility size thresholds will be made available at a later date.

HALIFAX

11

Opportunities for HRM

- Develop an integrated approach to leverage HRM's investment in stand alone smart technology projects - moving from a tactical approach to Smart City, to an integrated planned approach if it is to evolve along the Smart City continuum.
- Using smart city data that is collected through a number of operational projects – such as Enterprise Asset Management, street light technology and Open Data - to achieve other desired benefits.
- Invest in foundational business solutions and components to ensure high value business and citizen services : web based service delivery channels, customer relationship management , enterprise content management, core business solutions, BI.

HALIFAX

12

Approach for Smart Cities Challenge

- Met as an internal team last week of June:
 - Collecting information on projects underway
 - Developing evaluation criteria for ideas
 - Identifying key community stakeholders
- Developing engagement plan to engaging community stakeholders:
 - Citizens
 - Local Partners
 - Other Municipalities
- Developing a collaborative plan with stakeholders to:
 - Identify an opportunity
 - Develop a solution for addressing the opportunity
- Return to Regional Council for direction on potential Smart City themes/projects in Fall

HALIFAX

13

HALIFAX**Thank you.**

14