THE REGIONAL MUNICIPALITY OF NIAGARA
SMARTER NIAGARA STEERING COMMITTEE
FINAL AGENDA

SNSC 1-2019

August 29, 2019

4:30 pm

Committee Room 4

Niagara Region Headquarters

1815 Sir Isaac Brock Way, Thorold ON

Pages

1. CALL TO ORDER

2. DISCLOSURES OF PECUNIARY INTEREST

3. SELECTION OF COMMITTEE CHAIR

   3.1   Call for Nominations for Committee Chair

   3.2   Motion to Close Nominations for Committee Chair

   3.3   Voting for Committee Chair

4. SELECTION OF COMMITTEE VICE-CHAIR

   4.1   Call for Nominations for Committee Vice-Chair

   4.2   Motion to Close Nominations for Committee Vice-Chair

   4.3   Voting for Committee Vice-Chair

5. PRESENTATIONS

   5.1   Smart Cities - Overview   1 - 16
          Stuart Hendrie, Chief Information Officer

6. DELEGATIONS

7.	ITEMS FOR CONSIDERATION
	None.

8.	CONSENT ITEMS FOR INFORMATION
	None.

9.	OTHER BUSINESS

10.	NEXT MEETING
	The next meeting is to be determined.

11.	ADJOURNMENT

If you require any accommodations for a disability in order to attend or participate in meetings or events, please contact the Accessibility Advisory Coordinator at 905-980-6000 (office), 289-929-8376 (cellphone) or accessibility@niagararegion.ca (email).

Smart Cities Niagara Overview

Smarter Niagara Steering Committee
August 29, 2019

Agenda

- What is a Smart City

- Niagara's Smart Cities Challenge Application
  - Engagement
  - Sense of Belonging
  - Strategic Alignment
  - Leveraging Data & Technology

- Additional Information

What is a Smart City?

- Smart cities use data and technology to create **efficiencies**, improve **sustainability**, create **economic development**, and **enhance quality of life** factors for people living and working in the city.
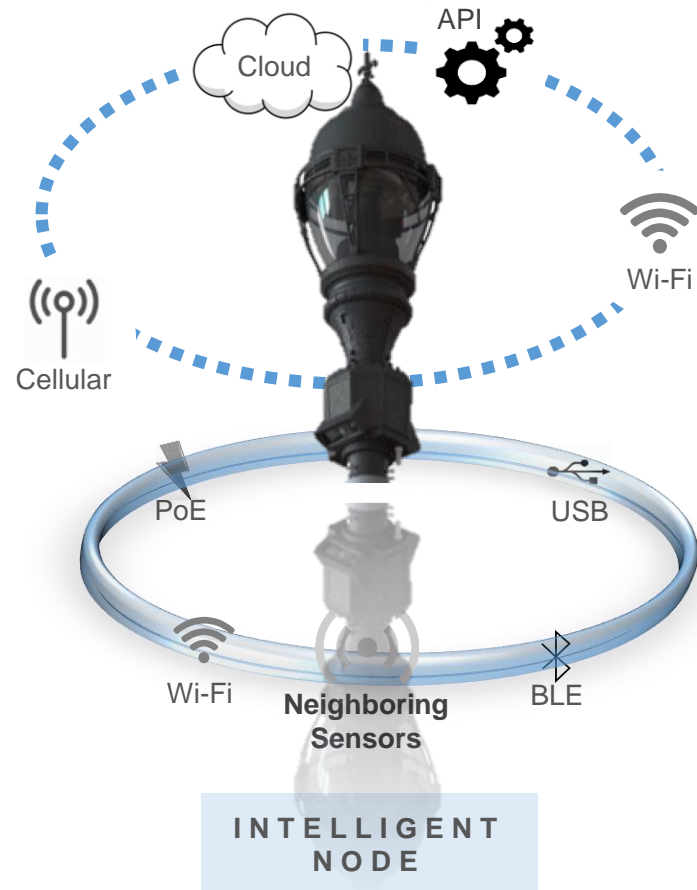

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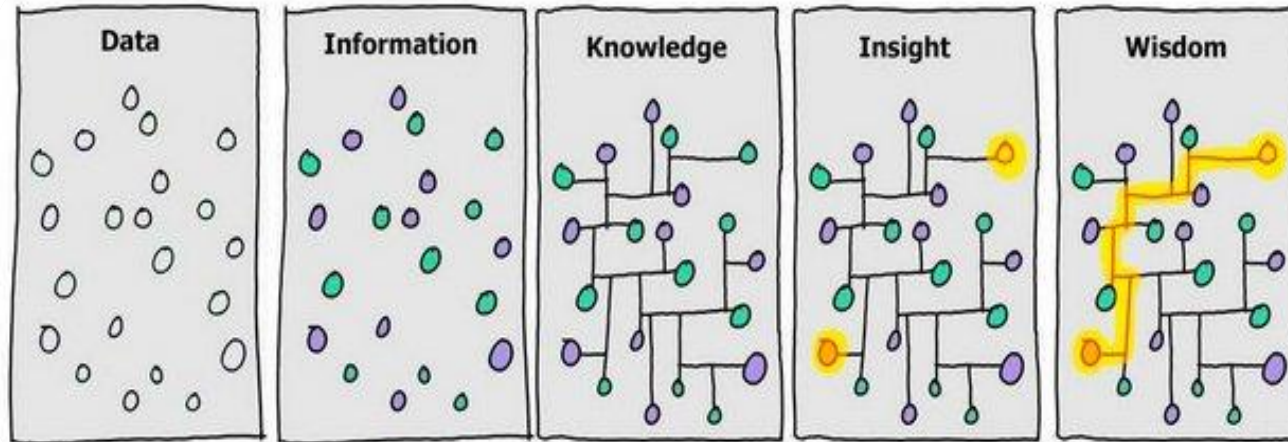
What is a Smart City?

Smart City Enablers…

- Real-time Data Analytics

- Cloud computing

- IoT (Internet of Things – e.g. sensors)

- Broadband / Narrowband (LPWAN)

- M2M Secure Communications

- Collaboration / Engagement

- Digital Literacy

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Smart Cities Example

About the Challenge

About the Challenge

PRIZES TO BE WON:

1 PRIZE: UP TO $50M OPEN TO ALL COMMUNITIES

2 PRIZES: UP TO $10M EA. OPEN TO COMMUNITIES UNDER 500,000 PPL

1 PRIZE: UP TO $5M OPEN TO COMMUNITIES UNDER 30,000 PPL

Collaborative Application

Municipal Partners

Collaborative Application

Community Partners

Engagement

7 Open Community Meetings

- Brock University x2, Niagara College, Four Points Sheraton, St. Catharines Central Library, NOTL Community Center, Ridgeway Farmer's Market

10 Stakeholder Meetings

- Representation from Municipal and Community partners

2 Online Surveys

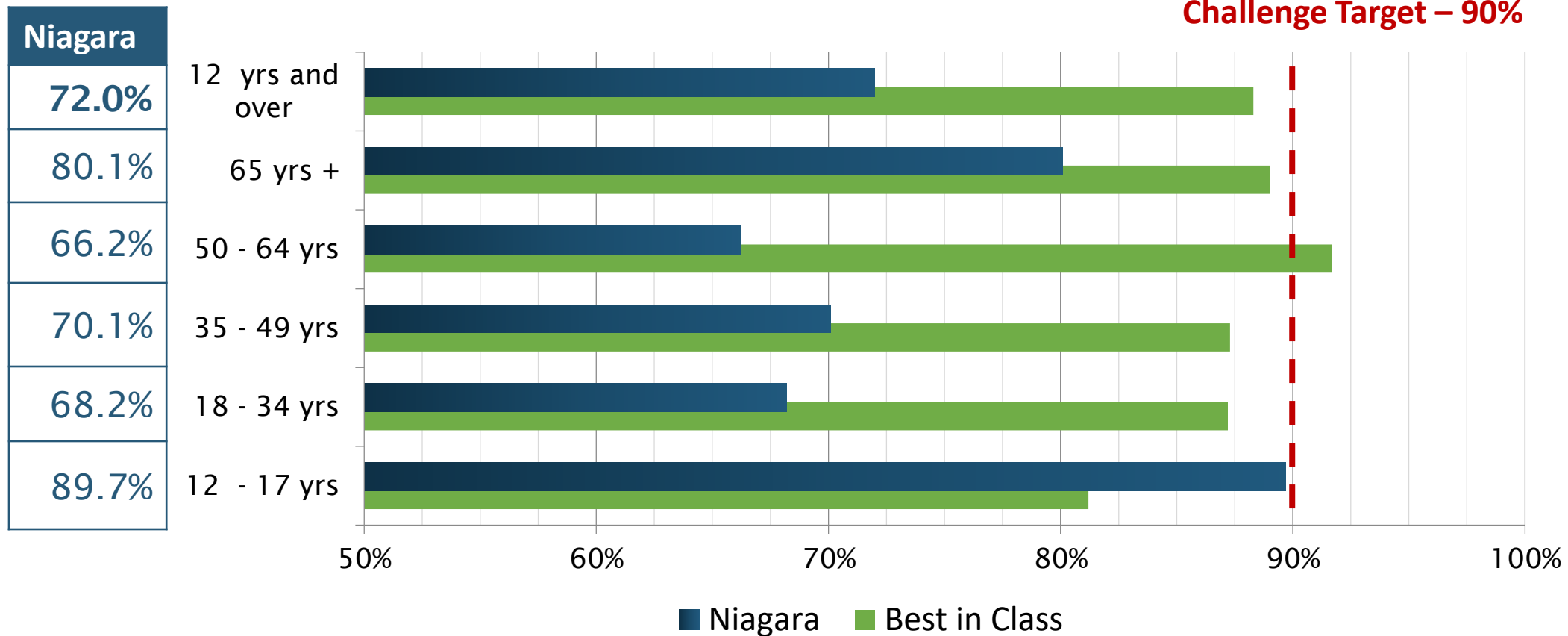- Over 400 responses: results released on the NiagaraOpenData.ca

Social Media

- 225,000+ Social media interactions (Twitter, Facebook, Website)

Brock University Students

- 100 Brock University MBA Student papers specifically on the Niagara Smart Cities Challenge

Sense of Belonging

Life Course Model

Challenge Target – 90%

| Niagara		
72.0%	12 yrs and over	
80.1%	65 yrs +	
66.2%	50 - 64 yrs	
70.1%	35 - 49 yrs	
68.2%	18 - 34 yrs	
89.7%	12 - 17 yrs	

■ Niagara ■ Best in Class

Labrador-Grenfell Regional Integrated Health Authority, Newfoundland and Labrador

Source: Statistics Canada. *Table 105-0508 - Canadian health characteristics, annual estimates, by age group and sex, Canada (excluding territories) and provinces, occasional (number unless otherwise noted),* CANSIM (database), 11

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Why Sense of Belonging

Affecting Factors
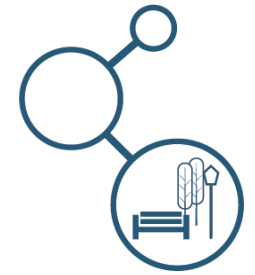
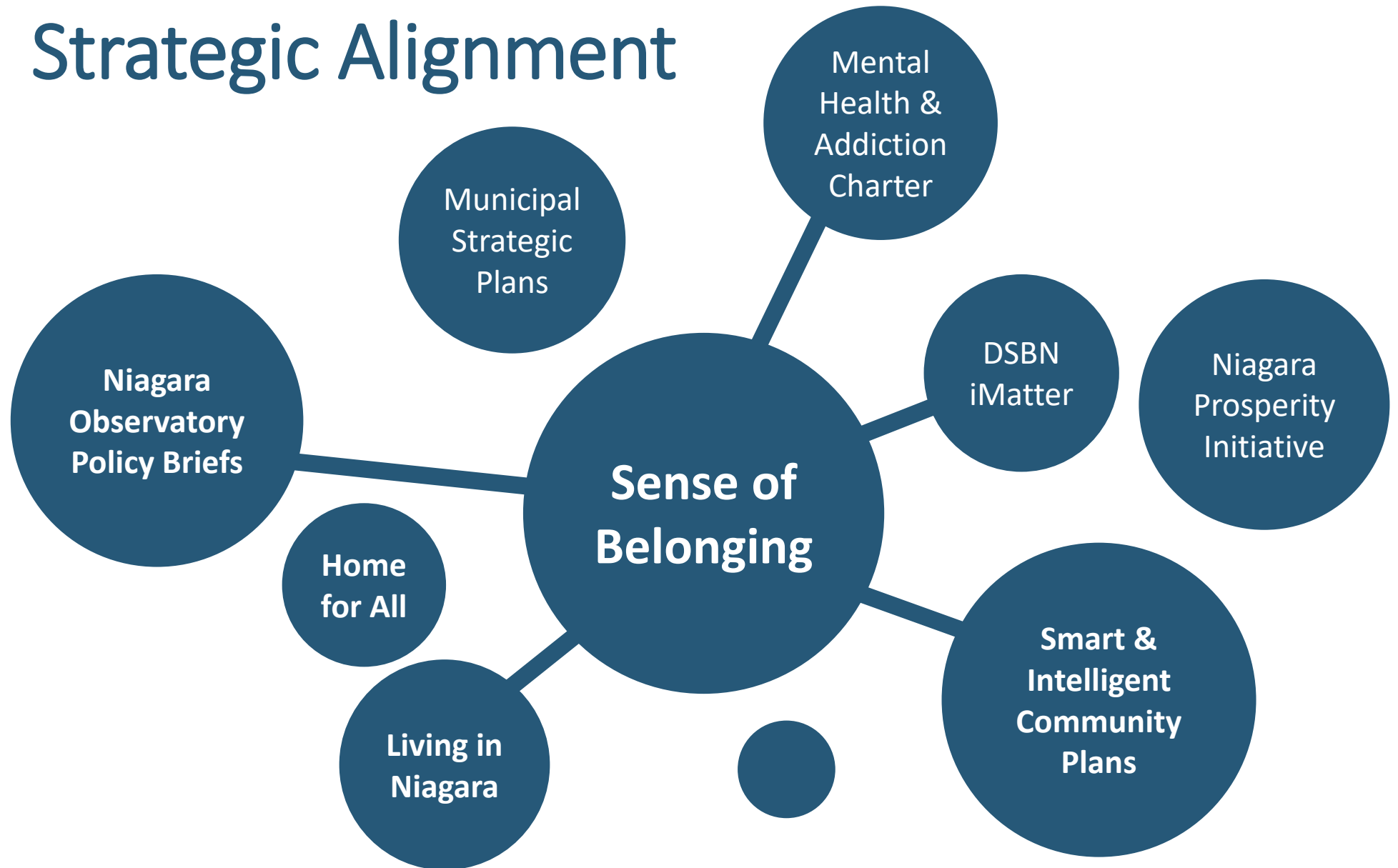| Economic Inclusion	Safety & Security	Housing	Family / School	Public Space
• Skill Gap • Wage Equality and Distribution • Household Income • Youth Employment Rate	• Crime Rates • Crime Severity Index • Falls	• Low Income Cut-offs • Shelter Visits /Length of stay	• Educational Attainment • Number of Friends/Contact • Substance Abuse	• Connectivity • Walkability/ Accessibility

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Leveraging Data and Technology

Reimagined connectivity hubs that enable participation by all

- Creation of connected Community Shelters/Benches/Kiosks
- Expand the role of libraries
- Design roving mobile hubs
- Plan Niagara iNnovation Neighborhoods
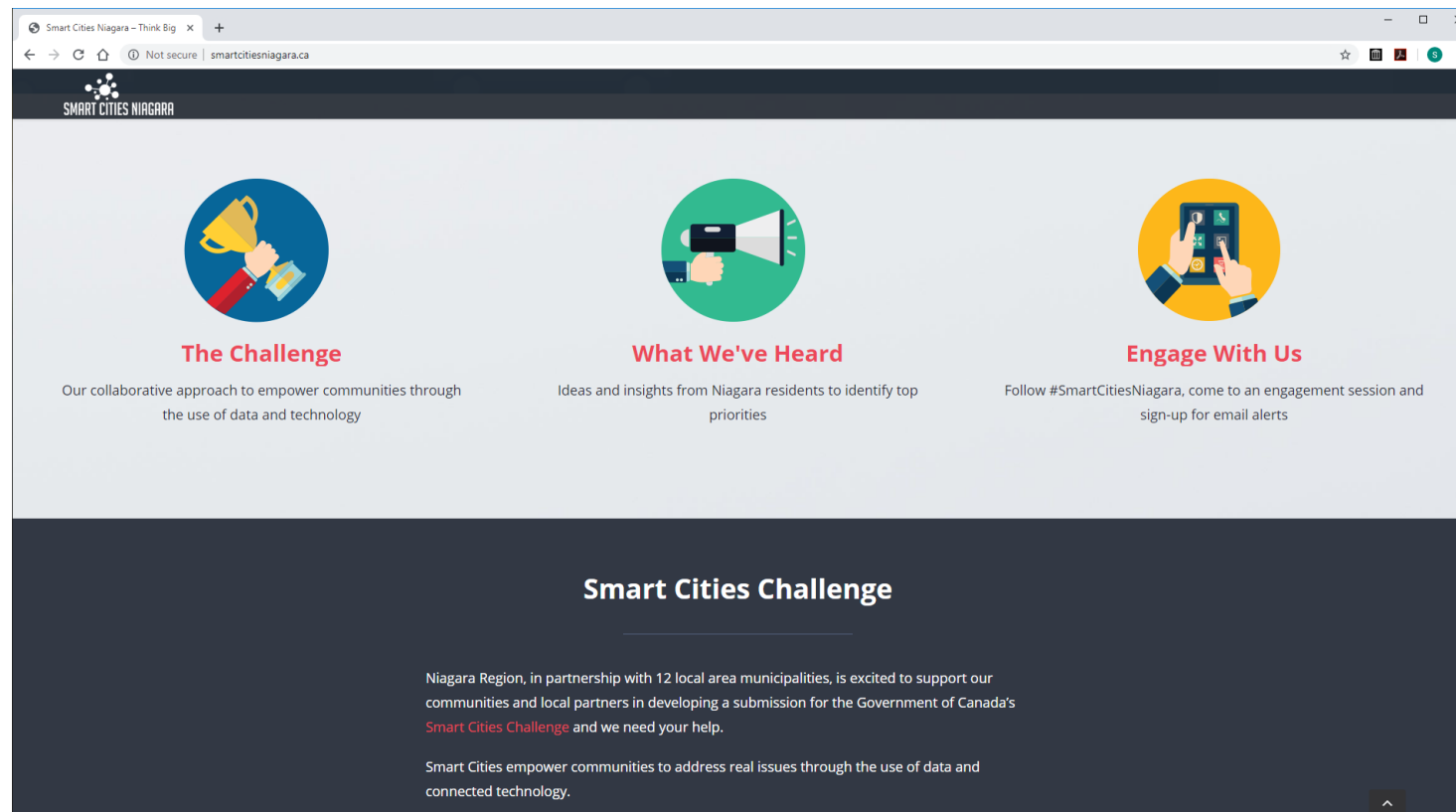- Develop augmented reality app to connect people with the history of Niagara

A digital ecosystem that makes 'invisible' members of society visible

- Leverage Artificial Intelligence to connect people to employment, volunteering, mentoring and recreation opportunities.
- Implement a Digital Identity model in partnership with federal and provincial initiatives.

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Additional Information

http://smartcitiesniagara.ca/

Smart Cities and Communities (SCC)

Community Value Created…

Type		Value proposition
Sustainable Urban Mobility	*Real-time road user information*	Enable people to take informed decisions about their mobility, saving time and energy.
	ITS-based enhancements of public transport	Reduce waiting time as well as emissions, and facilitate intermodal commuting.
	ITS for traffic monitoring, management and enforcement	Optimise fleet management and route scheduling.
Sustainable Districts & Built Environment	*Smart technologies for the built environment*	Pursue better living, resource efficiency and waste reduction.
	Sustainable districts	Reduce emissions and resource consumption by embedding integrated energy efficiency technologies.
	Place making	Create communities of interest that can be key to support integrated SCC solutions.
Integrated Infrastructure & Processes	*Smart City Platforms*	Allows real time monitoring and preventive steering of cities.
	Intelligent City Services	Co-ownership of local matters and outcomes. Efficiency savings for city administrations. Stimulate involvement at local level.
	Smart grids	Collected information and insights may serve planners and managers, but are often also shared with users, who can take more informed decisions and can also become *prosumers*, i.e. users that can switch from being energy consumers to becoming producers based on the circumstances.