



**City of Hamilton**  
**Mayor's Intelligent Community Task Force**

**Meeting #:** 18-002  
**Date:** July 18, 2018  
**Time:** 1:30 p.m.  
**Location:** Council Chambers, Hamilton City Hall  
71 Main Street West

Loren Kolar, Legislative Coordinator (905) 546-2424 ext. 2604

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**1. APPROVAL OF AGENDA**

(Added Items, if applicable, will be noted with \*)

**2. DECLARATIONS OF INTEREST**

**3. APPROVAL OF MINUTES OF PREVIOUS MEETING**

3.1 January 31, 2018

**4. DELEGATION REQUESTS**

**5. CONSENT ITEMS**

5.1 Smart City Challenge Projects and Next Steps – Update from Task Force Members  
(no copy)

**6. PUBLIC HEARINGS / DELEGATIONS**

**7. STAFF PRESENTATIONS**

7.1 Intelligent Community Forum Global Summit

**8. DISCUSSION ITEMS**

8.1 Mayor's Intelligent Community Task Force Terms of Reference Review and Next Steps

9. MOTIONS
10. NOTICES OF MOTION
11. GENERAL INFORMATION / OTHER BUSINESS
12. PRIVATE AND CONFIDENTIAL
13. ADJOURNMENT



**MAYOR'S INTELLIGENT COMMUNITY TASK FORCE  
MINUTES 18-001  
1:30 p.m.  
Wednesday, January 31, 2018  
Council Chambers, 2<sup>nd</sup> Floor  
Hamilton City Hall  
71 Main Street West**

**Present:** Mayor Fred Eisenberger  
Councillors Donna Skelly, Judi Partridge

**Also Present:** Jeff Cowan, HCE Telecom  
Chris Cutler, Office of the Mayor  
Tracey Dallaire, Mohawk College  
Mark Farrow, Hamilton Health Sciences  
Troy Hare, HCE Telecom  
John Hertel, Director Strategic Partnerships & Communications  
Tammy Hwang, Business Development Office, Global Hamilton  
Rob McMann, Intelligent Community Forum  
Andrea McKinney, Chief Digital Officer  
Chris Moore, Hamilton Chamber of Commerce  
Sarah Wayland, Project Lead, Global Hamilton

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**MAYOR'S INTELLIGENT COMMUNITY TASK FORCE MEETING 18-001  
OUTCOMES:**

**1. Amendment to the Mayor's Intelligent Community Task Force Terms of Reference (Added Item 9.1)**

**(Eisenberger/Partridge)**

That the Terms of Reference for the Mayor's Intelligent Community Task Force be amended by adding Councillor Maria Pearson to the membership.

**CARRIED**

**FOR INFORMATION:**

**(a) CHANGES TO THE AGENDA (Item 1)**

The Clerk advised of the following change to the agenda:

**1. MOTION (Item 9)**

Amendment to the Mayor's Intelligent Community Task Force Terms of Reference (Added Item 9.1)

**(Partridge/Skelly)**

That the Agenda for the January 21, 2018 Mayor's Intelligent Community Task Force be approved, as amended.

**CARRIED**

**(b) DECLARATIONS OF INTEREST (Item 2)**

None.

**(c) APPROVAL OF MINUTES OF PREVIOUS MEETING**

**(i) November 9, 2017 (Item 3.1)**

**(Partridge/Pearson)**

That the Minutes of the, September 12, 2017 meeting of the Mayor's Intelligent Community Task Force be approved, as presented.

**CARRIED**

**(d) CONSENT (Item 5)**

**(i) Intelligent Community Forum Top 7 Submission Status Update (Item 5.1)**

T. Hwang advised the Task Force that the February 8, 2018 will be the date of release for the Intelligent Community Forum's Top 7.

**(ii) Smart City Challenge Projects and Next Steps – Update from Task Force Members (Item 5.2)**

Task Force Members took this time to discuss matters of interest.

**(e) DISCUSSION ITEM (Item 8)**

**(i) Hamilton Chamber of Commerce Digital Infrastructure Report (Item 8.1)**

Rob McCann addressed the Task Force with a presentation respecting the Digital Infrastructure Report. A copy of the presentation has been included in the official record.

**(Pearson/Partridge)**

That the presentation respecting the Hamilton Chamber of Commerce Digital Infrastructure Report, be received.

**CARRIED**

For more information on this presentation, refer to Appendix "A" of the Minutes for the January 31, 2018 meeting.

The presentation is available at [www.hamilton.ca](http://www.hamilton.ca)

**(f) ADJOURNMENT (Item 12)**

**(Partridge/Pearson)**

That, there being no further business, the Mayor's Intelligent Community Task Force be adjourned at 2:32 p.m.

**CARRIED**

Respectfully submitted,

Mayor F. Eisenberger, Chair  
Mayor's Intelligent Community Task  
Force

Loren Kolar  
Legislative Coordinator  
Office of the City Clerk

## Mayor's Intelligent Community Task Force

- Calling the meeting to order at 1:34pm
- Councillor Pearson joining the taskforce
- ICF Top 7 – know February 8<sup>th</sup>
- Smart City Challenge
  - Came out in December
  - Led by a 50 word challenge statement
  - Outcomes that are measureable and achievable
  - Supported by baseline data
  - In consultation with the community
  - Application is due April 24<sup>th</sup>
- Hamilton Chamber of Commerce – Digital Infrastructure Report
  - Presentation
  - Create actions
  - Review and assess the current state
  - Identify gaps and opportunities
  - Develop a plan for infrastructure
  - Present to the taskforce on the plan
  - MacData reviewed the data
  - Carlisle has high speed, there are spotty areas in the rural area
  - Rural Ontario Municipal Access conference mentioned lack of service
  - Present this information to the planning and economic development departments? Planning Committee – Public Works – take it back to the Chamber to get approvals
  - Chamber hasn't talked to GM PED
  - Roundtable discussion with PED and Building Division, planning committee – there needs to be knowledge of what the challenges are
  - Connected to Open For Business?
  - Farms with 800 cows – the business is automated
  - This is a compilation of all the challenges from the all the service provider presentation
  - Get a response from City Staff team in response to these issues – define the major gaps within the City, take them forward for EcDev Strategy and our planning strategy
  - Smart City Corporate Strategy – hiring a team to facilitate the conversation
  - Workshop about smart city challenge buckets, create a plan and actionable steps
  - Hitachi will bring expert from Europe to hold focussed sessions in order to identify future steps
  - What are the quick wins?
    - What are the immediate issues?
    - Is there a process issue that we can get a quick win for this?
    - LRT?
  - LRT – Andrea facilitated conversation with LRT and service providers
    - There will be strategy meetings

- Mayor's going to take the lead, to report back to the committee to find out about LRT
  - Andrea will also follow up , it'll be the 3<sup>rd</sup> meeting of its kind
  - Standing business item
- Open for Business – EcDev didn't have any comparisons at the municipal level
- Topic of Rural Broadband doesn't get lost in the conversation
  - Remaining a priority
  - Agriculture – need is highest for infrastructure investment
- Do we know which municipalities would be the benchmark?
  - Hamilton is blazing a path for working together
  - Toronto with microtrenching – they seem to be ahead of us in terms of this infrastructure investment
  - Service providers are interested in discussion in an open dialogue basis
  - Rob is going to do presentation on other cities and what they have done
- Andrea – open dialogue in the next 6 weeks to have service providers come in and chat with our city departments
- When we get Top 7 we should be talking about this externally – progressive work
- This can be highlighted in the Smart Cities Challenge – there are action plans that come out of this
- Montreal has an innovative method for permitting – lower mainland Vancouver that has an open access framework – define a small handful of objectives that we can work on and solve, start small and work our way to the bigger objective
- What is microtrenching and what is the cost made up of?
  - Cost is from the actual construction – digging up the roadway and the blvd, there will be lots of existing infrastructure
  - If you don't want to open trench it – use other techniques that will not cause damage
  - Opportunity to introduce new technologies into the City's repertoire
  - Keyhole – small precise digging to lay infrastructure
- What about Data Centres?
  - McMaster has a startup that is working on new technologies
  - EcDev is working on data centres investment
- Public Works – strategy and improvement lead
  - There is progression happening
  - Now that digital requirements are being considered in public works
- Report – download speed – what about upload speeds? Yes, report looked at all upload and download speeds
- Not sure how we affect Alectra Pole Space – for new investment
  - We need to figure out the pole infrastructure
  - What about Hydro One in the rural area

#### Next Steps

- Opportunity for PW to present back to this committee





# ICF Summit – JUNE 2018

July 18, 2018

**ICF** GLOBAL **18**  
SUMMIT  
**London** June 4-6

produced in  
partnership with



Theme: Humanizing Data

# SUMMIT HIGHLIGHTS



ICF Global Summit was hosted at the Siemen's Crystal Building in East London.

Note: The Canadian Geese also infiltrated London...

We had an opportunity to share Hamilton's story with the ICF Global Summit attendees.

Mayor Fred Eisenberger  
Director Glen Norton  
Chief Digital Officer Andrea McKinney

Hamilton was recognized as one of the world's Top 7 Communities along with:

- Chiayi City, Taiwan
- Espoo, Finland
- Ipswich, Australia
- Tainan City, Taiwan
- Taoyuan, Taiwan
- Winnipeg, Canada

AND THE WINNER IS...

***Espoo,  
Finland!***



[https://www.espoo.fi/en-US/City\\_of\\_Espoo/Decisionmaking/The\\_Espoo\\_Story](https://www.espoo.fi/en-US/City_of_Espoo/Decisionmaking/The_Espoo_Story)

# About Espoo, Finland...

Population: 275,522

Area: 528 square km

Islands: 165

Unemployment Rate: 18%

Companies: Nokia, KONE, Rovio

Mayor: Jukka Makela





## Espoo: Next Generation Challenges

**CHALLENGE:** Capacity bottlenecks threatening city digital services and throttling future online experiences

**SOLUTION:** LuxTurrim 5G – a three year pilot project that leverages light poles as transmitters for 5G antennas and base stations. This project aims to create proof of concept for the technology integration



## Espoo: Sustainability at the Core

**BACKGROUND:** An international benchmark has named Espoo the most sustainable city in Europe. From 2013-2016 over 100,000 people participated in sustainability events and the city government launched 17 new sustainability projects in collaboration with partners and citizens.

**SOLUTIONS:** Six City Strategy – a cooperative policy uniting the six largest cities in Finland to tackle urban challenges while facilitating companies to create smart city solutions. To date: the partnership has launched 26 projects with a budget of 45 million euros, with an additional 55 million euros forecast through 2020.



## Espoo: Transforming Education

PROJECT: School as a Service (SaaS) – Espoo is working with local university and private sector companies to redefine education in Finland. The emerging SaaS model is a network of resources to support learning. Teachers change their focus from imparting knowledge to helping students identify the best way for them to learn. In the first year, students have actively grasped the opportunity to attend university courses and it has attracted 150% more applicants than the previous year.

PROJECT: Employment Concert Sello – a project that partners with large shopping centres in Espoo to train unemployed citizens in job-specific skills.



## Espoo: Transforming Education

**PROJECT:** KYKY Accelerated Co-Creation is a collaborative project that turns schools into living labs that support students' learning and growth while giving technology companies a platform to develop products and services for learning. Co-creation activities are user-driven, participatory and employer with school and company deciding together on structure, methods, and goals.

**RESULTS:** A total of 40 schools with 33,000 participants took part in the program. The program claims credit for guiding five education startups to international markets – all of them using the “co-created with the City of Espoo” brand in their marketing.

# Top 7 City: Chiayi City



Population: 270,000

Economy: Services sector including wholesale, retail, transportation, warehousing, accommodations, and food

## Projects:

- Air Box – a network of cloud-connected air quality monitoring stations
- Solar Photovoltaic Setup and Promotion Team – installation of solar panels on public buildings that are capable of producing 3.6 million degrees of power annually
- 1,000 Wi-Fi Hotspots
- Chiayi Youth Entrepreneur Association that holds a competition for student teams to compete on creative projects designed to teach business values
- Coworking Environments

# Top 7 City: Ipswich, Australia

Population: 195,000

Economy: Energy, Environment, Food and Agribusiness, Defence, Advanced Manufacturing, Education, Transport, Construction

## Projects:

- Western Corridor National Broadband Network – 39,000 premises are connected to the network with another 34,000 set for 2019
- Firestation 101 is a hub for startups and innovators that provide education, mentoring, and potential funding
- The Application Studio is a formal framework for city service experts, open data analysts, and innovators to collaborate in developing new city services and projects
- Smart City Program from Ipswich City Council



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# Top 7 City: Tainan City

Population: 1.9 million

Economy: High-Tech industrial, green energy, biotechnology, auto parts, food processing, textiles, plastics, and other traditional manufacturing

## Projects:

- Small Business Innovation Research program that promotes and subsidizes R7D
- Maker Bases for the city's Youth – include hackerspaces, makerspaces, tech shops, Fab(rication)Labs
- Free digital skills classes
- Mobile Networking Project – offers classes to senior citizens around smartphone usage, accessing medical information, and streamlining appointment bookings for those seeking medical aid



# Top 7 City: Taoyuan City

Population: 2.1 million

Economy: High-Tech industrial

## Projects:

- i-Taoyuan Free Wi-Fi 2.0 Project has established 921 free wireless hotspots through the city with plans to expand four high-traffic areas into hot zones with wider coverage
- Internet of Things demonstration zone – established 90 LoRa Hotspots in the city to support IoT network
- Creating an Asian Silicon Valley in the Qingpu area of the city with attracted investment of 500 billion NTD (~\$21 million CAD)
- Citizen Identity Card – connects residents with a wide variety of public services and information. It's integrated with city's transportation system too



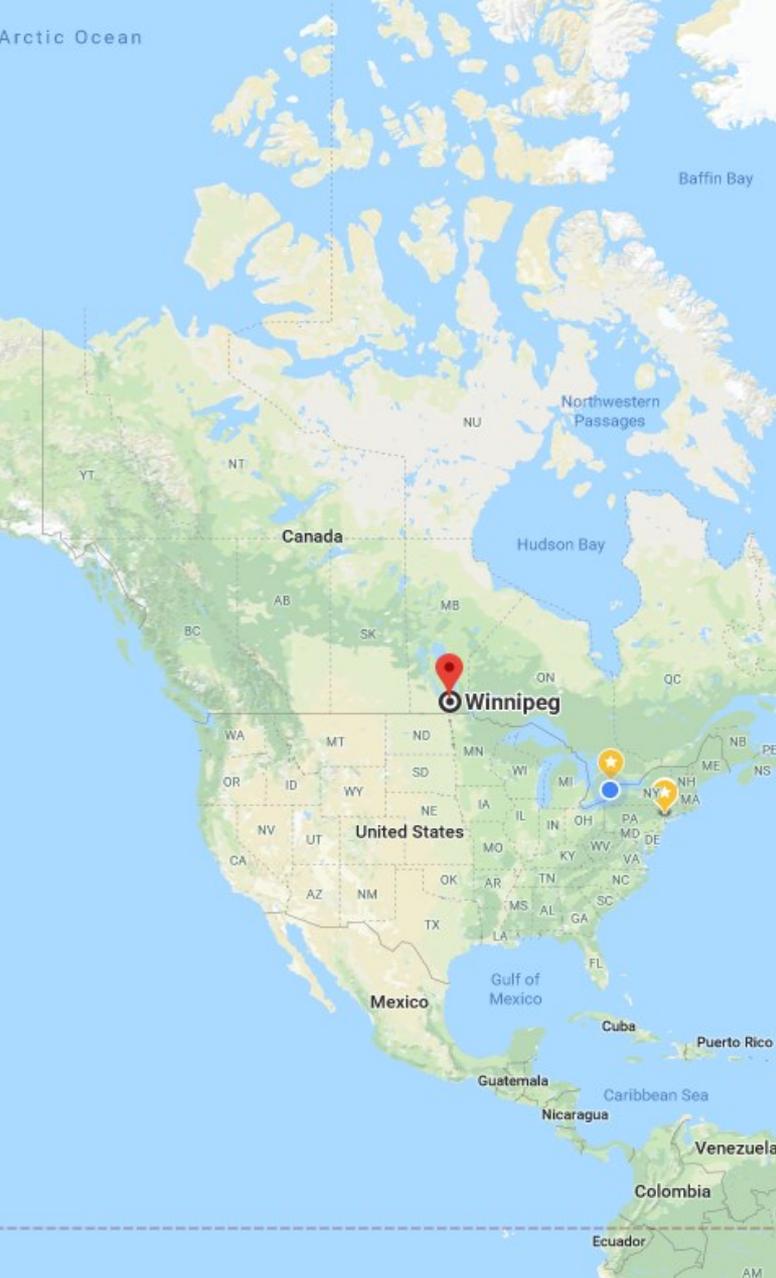
# Top 7 City: Winnipeg

Population: 705,000

Economy: Manufacturing, trade, education, health care, social assistance

## Projects:

- Manitoba Internet Exchange allows members of the exchange to connect to one another over unmetered Ethernet to order to exchange local internet traffic. This bypasses the need for expensive and complex routing
- North Forge Technology Exchange is Canada's largest non-profit fabrication workshop. It provides access to digital fabrication, prototyping equipment, training, support, and includes digital services
- Composite Innovation Centre (CIC) is a public-private R&D organization to develop technologies and supply chains for high performance composites
- Digital Voices Project is around oral storytelling in the aboriginal culture



# NEXT STEPS

- Future direction of Mayor's Intelligent Community Task Force?
- Changing Terms of Reference?
- Applying for next ICF Designation?





## THE MAYOR'S INTELLIGENT COMMUNITY TASK FORCE

### TERMS OF REFERENCE

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#### Background

As a means of increasing Hamilton's international visibility and name recognition, the City of Hamilton applied for "Intelligent Communities" designation to the Intelligent Communities Forum (ICF). ICF is a non-profit group that examines the capability of individual cities to prosper in a Broad Band Economy and designates some of them as "Intelligent Communities."

Global Hamilton led this initiative, with support from the Mayor's Office and input from City of Hamilton staff across the organization. Based on the application, Hamilton was named a Smart21 Community in the 2016 Intelligent Communities Awards.

Upon presentation of Information Report PED16038 about the ICF designation, a motion was passed to create a Mayor's Task Force to examine Hamilton's IT infrastructure, identify gaps in our digital strategy, and develop an action plan for improving Hamilton's ranking by the ICF.

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#### Purpose and Mandate

The Mayor's Intelligent Community Task Force will provide the leadership and direction to explore and address Hamilton's weaknesses while leveraging the strengths, as they relate to an Intelligent Community. Specific objectives include:

- to examine and assess Hamilton's IT infrastructure
- to develop a city-wide digital strategy, supported by an action plan
- to improve Hamilton's strengths and assets as they pertain to ICF indicators

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#### Responsibility and Scope of Work

The Mayor's Intelligent Community Task Force will:

- Establish defined outcomes with specific deliverables related to addressing the gaps outlined in the report card from Intelligent Community Forum. Additionally, it is expected that input from specific industry sectors will inform the action plan.
  - Ensure that the strategy is "industry driven" and that this strategy will continue to grow and evolve according to industry demands.
  - Provide advice and assistance in the implementation of the Task Force's mandate for the digital strategy.
  - Provide advice and suggestions to the Mayor, Council, and Senior Managers where and when required.
  - Monitor and track progress and make recommendations where new or improved performance is required.
  - The Task Force members will adhere to a specified code of conduct.
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<b>Membership Terms and Rules of Engagement</b>	<ul style="list-style-type: none"> <li>• The Mayor’s Task Force will operate for 24 months (or as required and agreed upon by members based on community needs)</li> <li>• Task Force will meet quarterly at the call of the Chair</li> <li>• Members are expected to attend all meetings</li> </ul>
<b>Chair &amp; Co-Chair</b>	<ul style="list-style-type: none"> <li>• Mayor Fred Eisenberger (Chair)</li> <li>• Co-Chair to be elected from the membership</li> </ul>
<b>Member Composition</b>	<p>The Task Force will consist of the Mayor and two (2) members of Council, City of Hamilton staff across the organization, as appropriate, and interested community partners and experts, to include McMaster University, Mohawk College, Hamilton Health Sciences, St. Joseph’s Healthcare Hamilton, and Innovation Factory. The views of industry representatives with an interest in digital infrastructure and strategy will inform the work of the Task Force.</p> <p>Task Force members are:</p> <ul style="list-style-type: none"> <li>• Mayor Fred Eisenberger (Chair)</li> <li>• Councillor Judi Partridge</li> <li>• Councillor Maria Pearson</li> <li>• John Preston, Associate Dean and External Relations, Faculty of Engineering, McMaster University</li> <li>• Laura Dobson, Chief Information Officer, Mohawk College</li> <li>• Mark Farrow, Hamilton Health Sciences and St Joseph’s Healthcare</li> <li>• Keanin Loomis, CEO, Hamilton Chamber of Commerce</li> <li>• David Carter, Executive Director, Innovation Factory</li> <li>• Troy Hare, HCE Telecom</li> <li>• Rob McCann, Clear Cable Networks and ICF Canada</li> <li>• Maria McChesney, Director of Information Technology</li> <li>• Filipe Janicas, Manager, Infrastructure and Operations, Information Technology</li> <li>• John Hertel, Director, Enterprise Management and Revenue Generation</li> <li>• Cindy Mercanti, Director, Customer Service, Access and Equity</li> <li>• Gord McGuire, Manager of Corridor Management, Public Works</li> <li>• Andrea McKinney, Director of Communications and Intergovernmental Affairs</li> <li>• Andy Zimmerman, Corporate Communications Officer – Digital Media</li> <li>• Ali Sabourin, Strategic and Business Planning Coordinator, PED</li> </ul> <p>Characteristics required for a Task Force member include:</p> <ul style="list-style-type: none"> <li>• Brings a Hamilton focus and has an established network that can be utilized to assist in accomplishing the Task Force objectives.</li> <li>• Understands why Hamilton needs a strong digital infrastructure and IT to remain competitive against other cities that want to attract international firms for investment</li> <li>• Recognizes that successful collaboration produces results, not just structures and activities</li> <li>• Engages others with diplomacy and political acumen</li> <li>• Is willing to put challenging or delicate issues on the table and work through them</li> <li>• Is willing to pioneer, break through and identify innovative solutions to complex issues related to Hamilton’s IT strategy, governance, and infrastructure</li> </ul>
<b>Resources</b>	<ul style="list-style-type: none"> <li>• City staff liaison from Global Hamilton Office in Planning and Economic Development Department</li> <li>• Legislative Services from the Office of the City Clerk</li> <li>• Meeting facilities that are adequate and accessible will be provided</li> </ul>
<b>Date of Last Review</b>	August 8, 2017