



# **Growing Eastern Ontario By Improving Mobile Broadband**

**Presentation to City of Peterborough  
May 13, 2019**

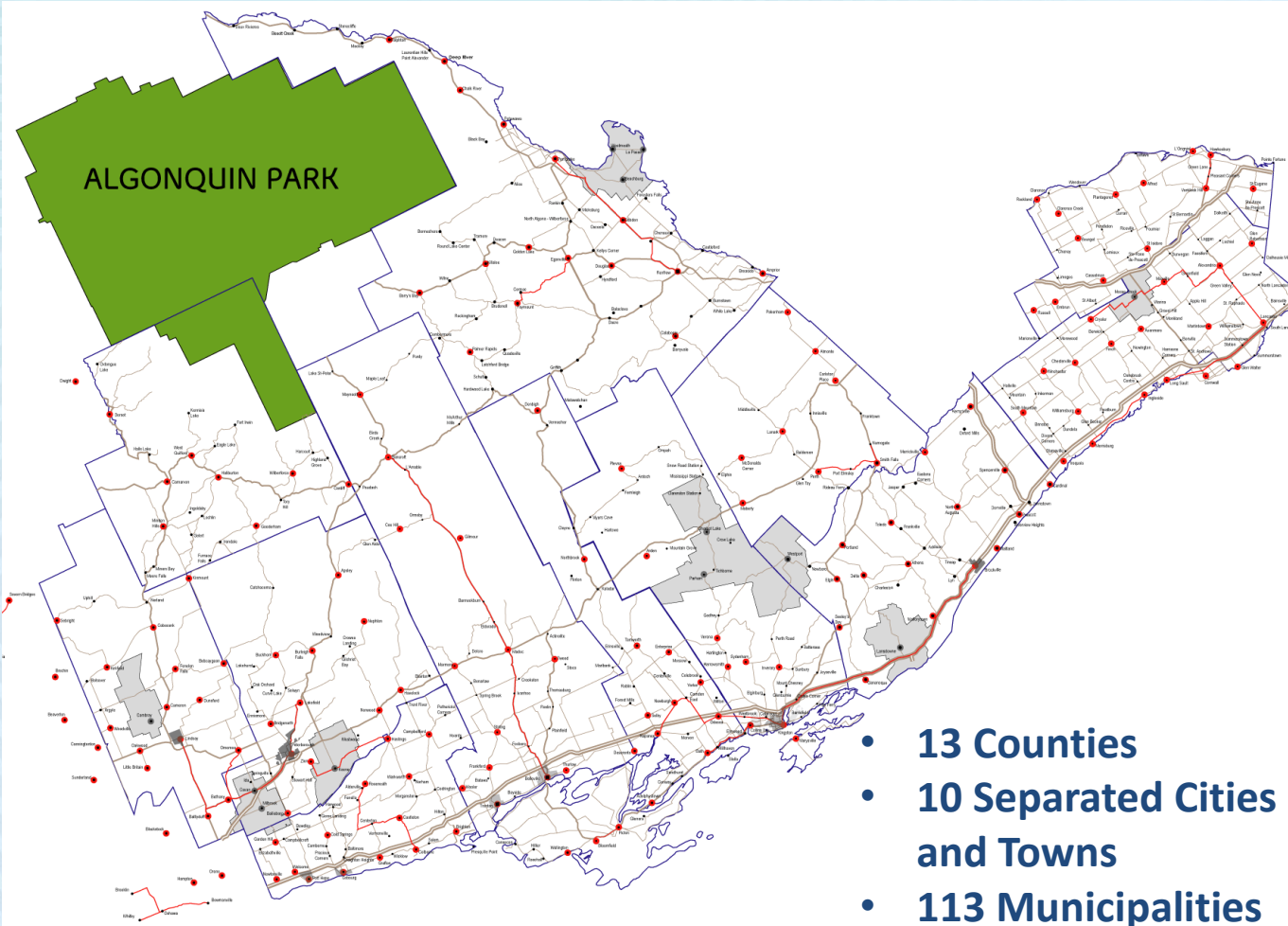




- **Eastern Ontario Regional Network is Not For Profit Organization established by the Eastern Ontario Wardens Caucus (EOWC)**
- **EORN's mission is to make Eastern Ontario one of the best connected regions in North America by:**
  - Improving access to high speed internet services through fixed and wired solutions, &
  - Improving access to mobile broadband/cell services



# EORN Project #1



- 50,000 sq. km coverage area
- 5,500 km+ of new GigE fiber core
- 160 enhanced Optical Ethernet POPs scalable to 100 Gigs per POP
- Last mile Fixed Wireless, ADSL, Satellite
- 423,000 homes/business with access up to 10Mbps
- 63 business parks fibered
- \$175 million build (\$260 value)
- Connected 4 of 6 First Nations
- Spurring \$100m+ new investments.
- 1.2 million Residents



# Appendix B Eastern Ontario Mayors Committee (EOMC) Contributions-Project #1



| Separated Municipality | Contribution | Investment   |
|------------------------|--------------|--------------|
| Belleville             | \$267,456    | \$2,395,817  |
| Cornwall               | \$258,580    | \$772,500    |
| Gananoque              | \$141,638    | \$1,492,711  |
| Kingston               | \$444,830    | \$1,817,169  |
| Prescott               | \$139,807    | \$640,000    |
| Quinte West            | \$248,993    | \$3,727,612  |
| Total                  | \$1,501,304  | \$10,845,809 |

City of Peterborough received \$469,377 in direct upgrades from the project and over \$30M in investment from Bell in Fiber to the home.







## Project #2

# Improving Mobile Broadband Coverage



# What Is Being Proposed?



## \$213M PPP that will:

- Grow the region's economy and create jobs (+3,000)
- Improve public safety
- Improve health care delivery
- Support Ontario's push to 5G & the new digital economy
- Provide an additional option to connect to the Internet

## HOW?

- Extend mobile broadband services to Eastern Ontario by improving existing cellular networks (closing coverage & capacity gaps)



# Benefits

## Creating jobs and private sector business growth:

- Potential jobs: 3,000 full-time job equivalents over 10 years.
- Potential revenues: \$420 million in private sector business revenues

## Supporting key priorities of the region's Economic Development Strategy:

- Creating an integrated and intelligent transportation system.
- Supporting technological integration and innovation.
- Participating in 5G economy

## Smart Cities Infrastructure:

- Better public services
- Improved social connectivity



### Cell Gap

Currently in areas where there are homes, businesses or major roadways:

- 35% of the area does not have access to HD services
- 20% of the area does not have access to SD services
- Up to 10% of the area has no access to cell coverage



# Partners Funding the Project



|                        |                    |
|------------------------|--------------------|
| <b>EOWC/EOMC</b>       | <b>\$10M ✓</b>     |
| <b>Canada</b>          | <b>\$71M</b>       |
| <b>Ontario</b>         | <b>\$71M ✓</b>     |
| <b>Mobile Carriers</b> | <b>\$61M (RFP)</b> |
| <hr/>                  |                    |
| <b>Total</b>           | <b>\$213M</b>      |



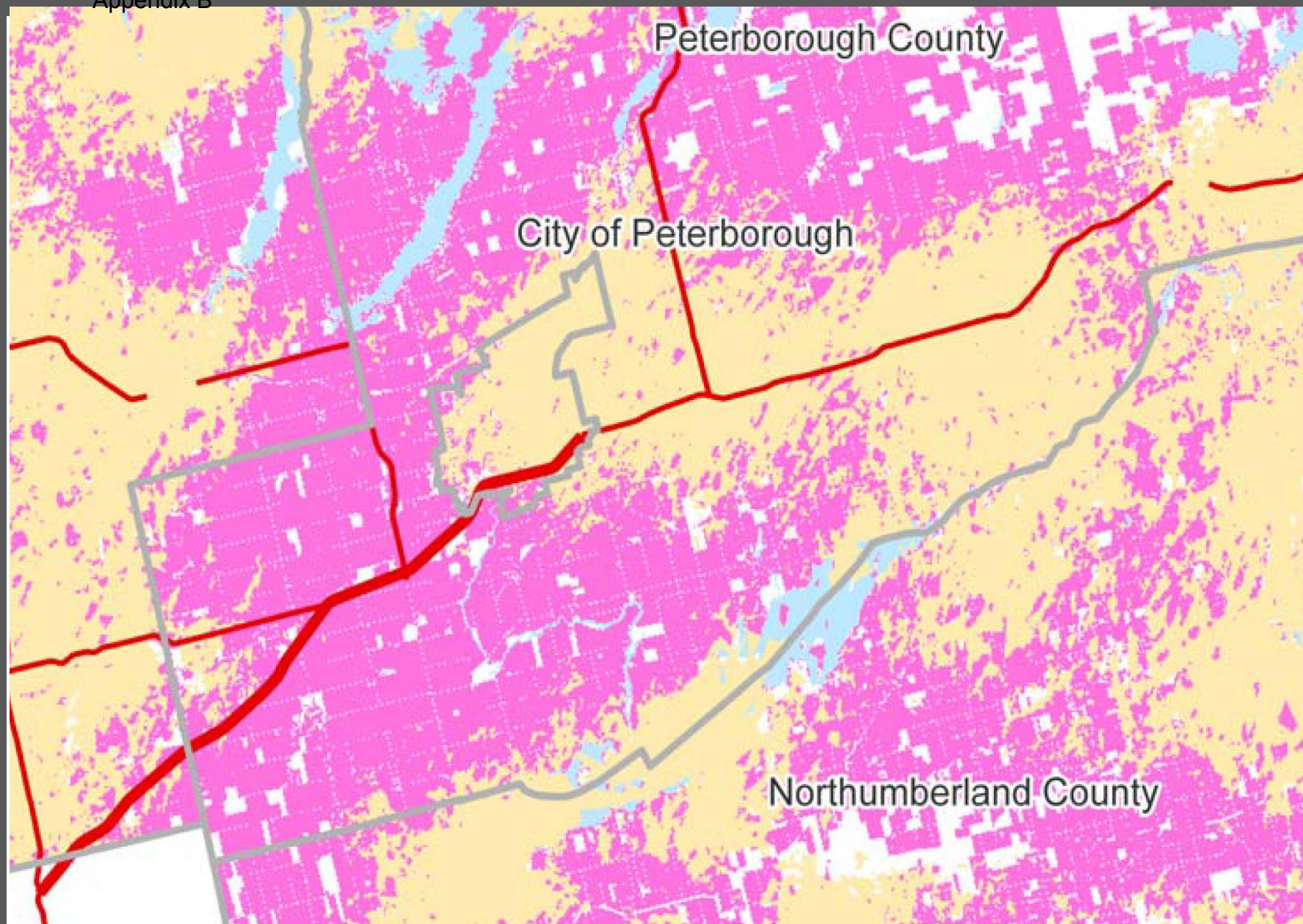


# For \$213 Million EORN Will:



1. Achieve 99% coverage of the Eastern Ontario Region with a cellular calling service level where people live, work and travel.
2. Achieve 95% coverage of the Eastern Ontario Region with SD (Standard Definition) service level where people live, work and travel.
3. Achieve 85% coverage of the Eastern Ontario Region with HD (High Definition) service level where people live, work and travel.
4. Invest \$34 million in increased capacity/5G network enhancements in high density, high network utilization areas.







# EOWC Member Contributions



| Municipality                          | Min Expected Cost \$ | Max Expected Cost \$ |
|---------------------------------------|----------------------|----------------------|
| Haliburton County                     | 437,034              | 566,621              |
| Hastings County                       | 504,395              | 650,390              |
| Kawartha Lakes                        | 705,021              | 998,750              |
| Northumberland County                 | 658,053              | 955,109              |
| Prince Edward County                  | 232,716              | 328,996              |
| Lennox & Addington County             | 414,899              | 567,517              |
| Frontenac County                      | 385,277              | 509,014              |
| County of Leeds & Grenville           | 625,532              | 871,563              |
| Lanark County                         | 573,561              | 802,119              |
| County of Stormont Dundas & Glengarry | 567,218              | 790,436              |
| Prescott & Russell County             | 672,061              | 975,930              |
| Renfrew County                        | 895,237              | 1,194,798            |
| <b>Peterborough County</b>            | <b>671,477</b>       | <b>929,946</b>       |

- *Min – assumes all 23 EOWC & EOMC members participate*
- *Max – assumes no separated municipalities participate*



# City of Peterborough Contribution

## Formula Based Calculation:

- Area charge = 20% weighted - based on square km's of members
- Population = 40% weighted - based on member's population\*
- Weighted Assessment = 40%\*

**\$553,311 - \$758,192\*** (\*if no EOMC members contributed)

## Payment Options:

- One time payment which earns 5% interest on a declining balance over a three year period from the above noted contribution amount.
- Annual payment over a 4 year period - **\$138,327 - \$189,548\*** (\*if no EOMC members contributed)

*We already have Council resolutions of support from Kingston, Belleville, Smiths Falls, Quinte West, Prescott, Cornwall, and Gananoque*



# EOMC Contributions



| Municipality        | Min Expected Cost \$ | Max Expected Cost \$ |
|---------------------|----------------------|----------------------|
| • Peterborough City | 553,311              | 758,192              |
| ✓ Quinte West       | 288,274              | 407,043              |
| ✓ Belleville        | 363,101              | 511,058              |
| ✓ Kingston          | 954,783              | 1,222,264            |
| ✓ Gananoque         | 34,949               | 52,452               |
| ✓ Prescott          | 26,232               | 39,548               |
| • Brockville        | 150,057              | 220,435              |
| ✓ Cornwall          | 296,464              | 424,724              |
| • Pembroke          | 76,971               | 114,500              |
| ✓ Smiths Falls      | 54,565               | 81,826               |

- *Min – assumes all 23 EOWC & EOMC members participate*
- *Max – assumes all EOWC members participate and only your separated municipality participates*





# Questions????

