



City of Brampton

# Telecommunication Infrastructure



Shared Tower

Welcome to

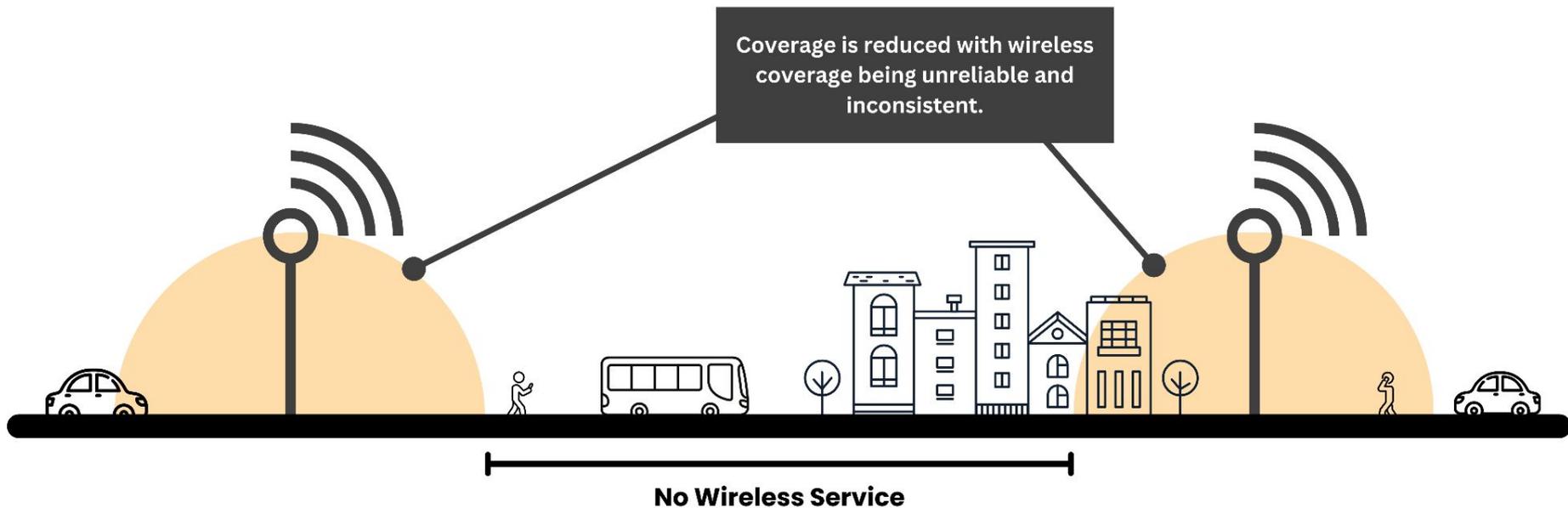
# Shared Tower

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- **Carrier-neutral telecommunications real estate and infrastructure**
- **Backed by the major carriers to deliver telecommunications infrastructure**
- **Developed 1,500 sites across the country**
- **Leaders in the field**

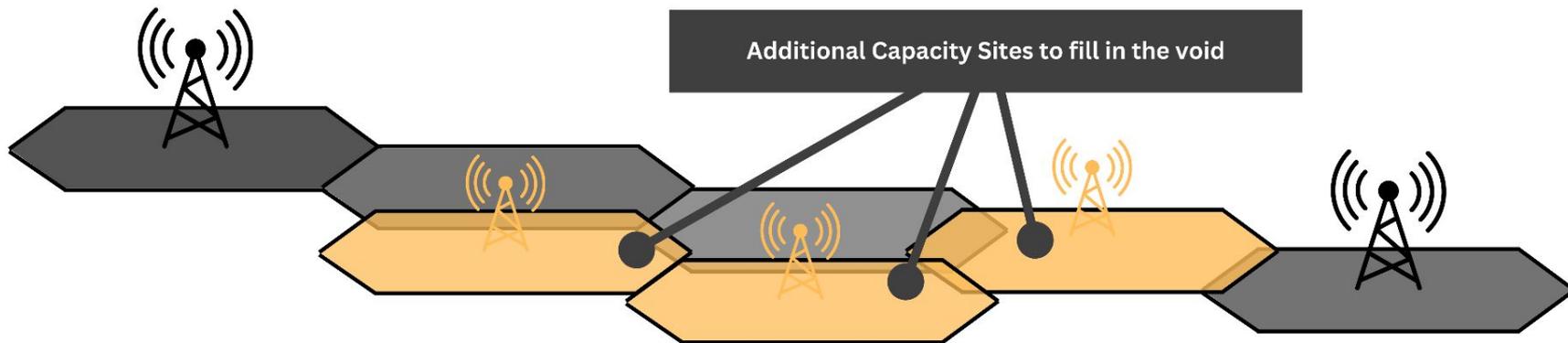
## Gaps in the Wireless Network



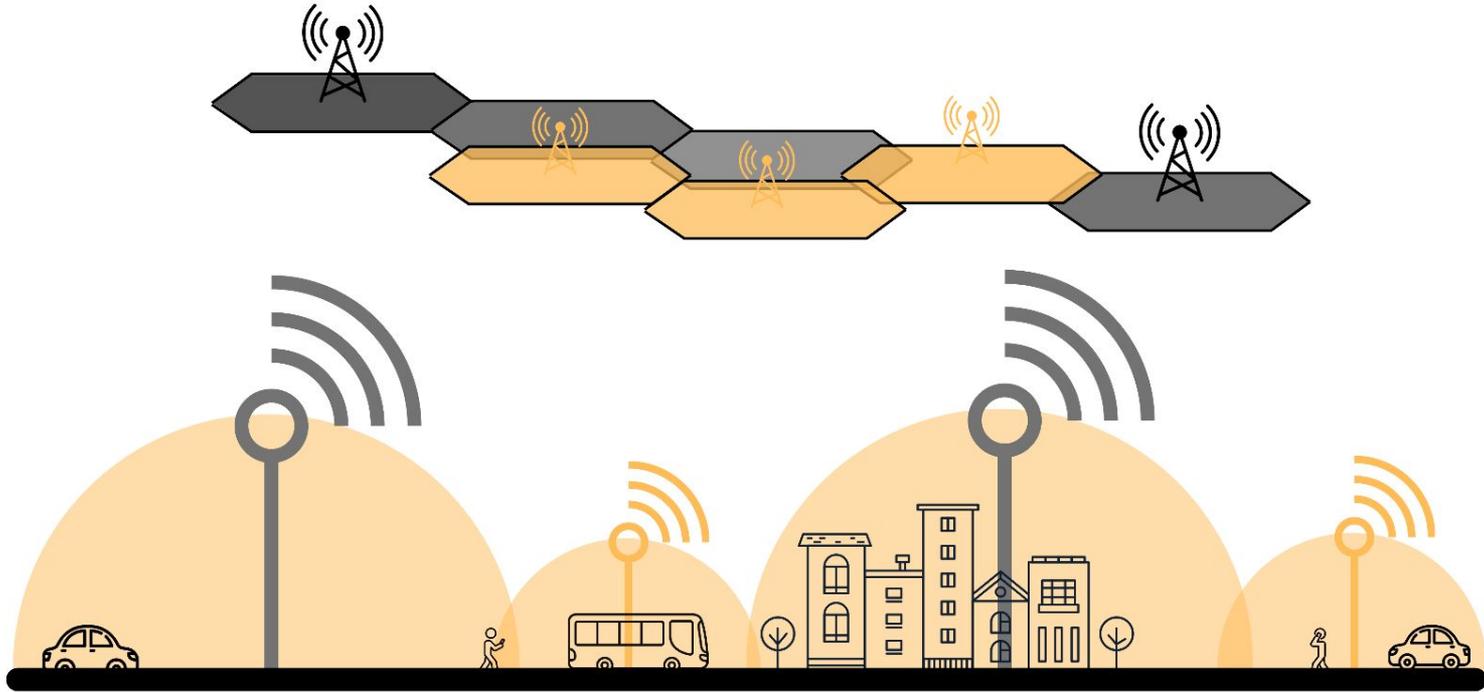
**With gaps in the wireless network, the level of coverage received is depending on geographical location and how wireless devices used.**

## The Solution

Additional Capacity sites are added to fill in the gaps in wireless coverage. This ensures improved coverage that can allow for reliable voice call and high throughput data streaming capabilities.



**Void Gaps have been alleviated with the additional capacity sites.  
Continuous wireless service is now established.**



Additional Capacity sites provide a solution for both distance & capacity. These sites are closer to the user and can also offload and relieve the existing sites of network traffic and increase signal power in particular areas.

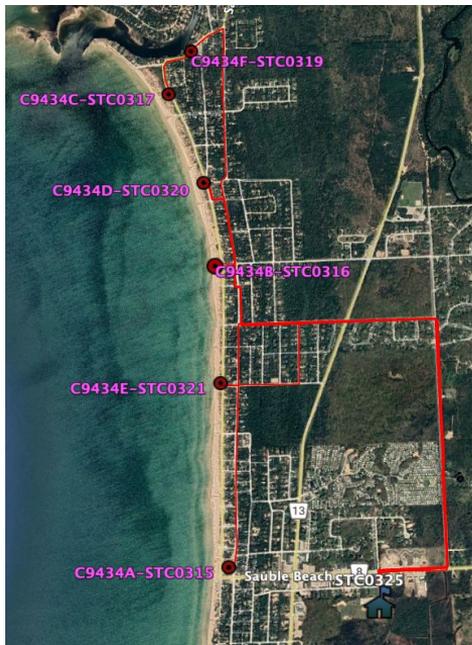
It ensures a smooth experience for users as they use their wireless devices and move from different locations, utilizing the services from various base stations.



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# Case Study: Town of South Bruce / Sauble Beach

## Turnkey 5G Densification & Radio Access Network for Tier 1 Wireless Operator



### PROJECT HIGHLIGHTS:

- Turnkey solution for six towers built on Municipal lands owned by South Bruce, working with 3 permitting authorities
- Shared Tower commissioned leased fibre for next generation, small-format towers
- Constructed a 500 sq ft facility on municipal property to collocate Tier 1 carrier network equipment
- Completely resolved persistent wireless coverage issues in Sauble Beach
- Collaborated with Federal, Municipal, County, Parks, and Conservation permitting authorities

### Accelerated delivery timelines:

- 9 Weeks - First Tower
- 12 Weeks - Second Tower
- 4x Additional sites were delivered by Feb '23

### Fibre Optic Cable Deployed

- 35km of new dark fibre commissioned by Shared Tower

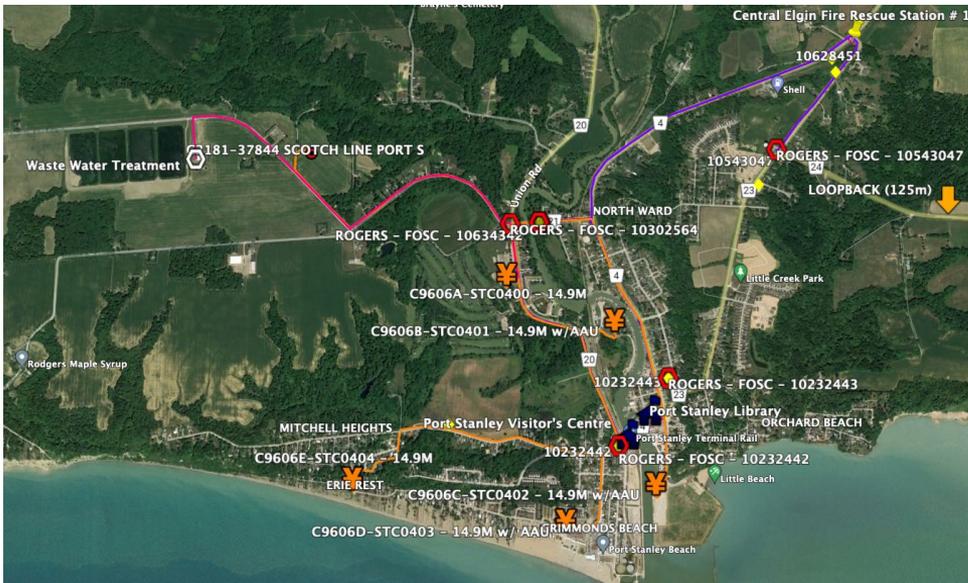


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# Case Study: Port Stanley / Central Elgin



## Shared Tower partnership with Central Elgin Municipality (Summer 2023)



### PROJECT HIGHLIGHTS:

- Project was completed in a seven month timeline
- Included five next-generation, smaller format, 5G densification towers built on Municipal land owned by Central Elgin
- Enabled by ~38km new fibre optic cable that was built by Shared Tower
- Shared Tower collaborated with five permitting authorities to choose sites, develop a plan, and ultimately perform a network build spanning two municipalities

### 5G Densification & Coverage:

- In partnership with a Tier 1 carrier, 5 wireless towers resolved coverage gaps caused by a challenging geography in the city centre and historical municipal opposition to towers
- Massive improvement in service was made available to this busy summer resort destination



# Case Study: Niagara Parks Commission Cellular Improvement Project via RFP

In alignment with the provincial mandate to improve cellular and digital service delivery across Ontario, Shared Tower Inc. won an RFP issued by Niagara Parks Commission to install and operate telecommunications infrastructure at various locations across their real estate holdings to drive cellular coverage improvements in key areas.



## PROJECT HIGHLIGHTS:

- Turnkey solution for at least 11 towers built on lands owned by the Niagara Parks Commission throughout the 56 km Niagara River corridor
- Jointly working with the 3 Municipalities to complete the varying consultation requirements on site-by-site basis
- Shared Tower will be commissioning leased fibre for next generation, small-format discrete towers in high capacity tourist areas
- This project will resolve persistent wireless coverage issues along the Niagara Parkway; including coverage and capacity solutions for the busy current and future attractions at Niagara Falls
- Collaborating with Federal, Municipal, Parks, Archaeology, and Conservation permitting authorities





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# Case Study: Municipality of Clarington



- The Municipality of Clarington is a fast-growing area east of Toronto that has seen the development of its communications infrastructure fall behind its expectations
- Clarington chose Shared Tower as its partner of choice due to Shared Tower's unsurpassed track record of nimble, focused execution for Tier 1 partners in challenging timelines
- Clarington made available its inventory of public land which allowed Shared Tower to immediately put into production a number of towers by which Tier 1 carriers would drastically improve connectivity for Clarington's citizens and businesses

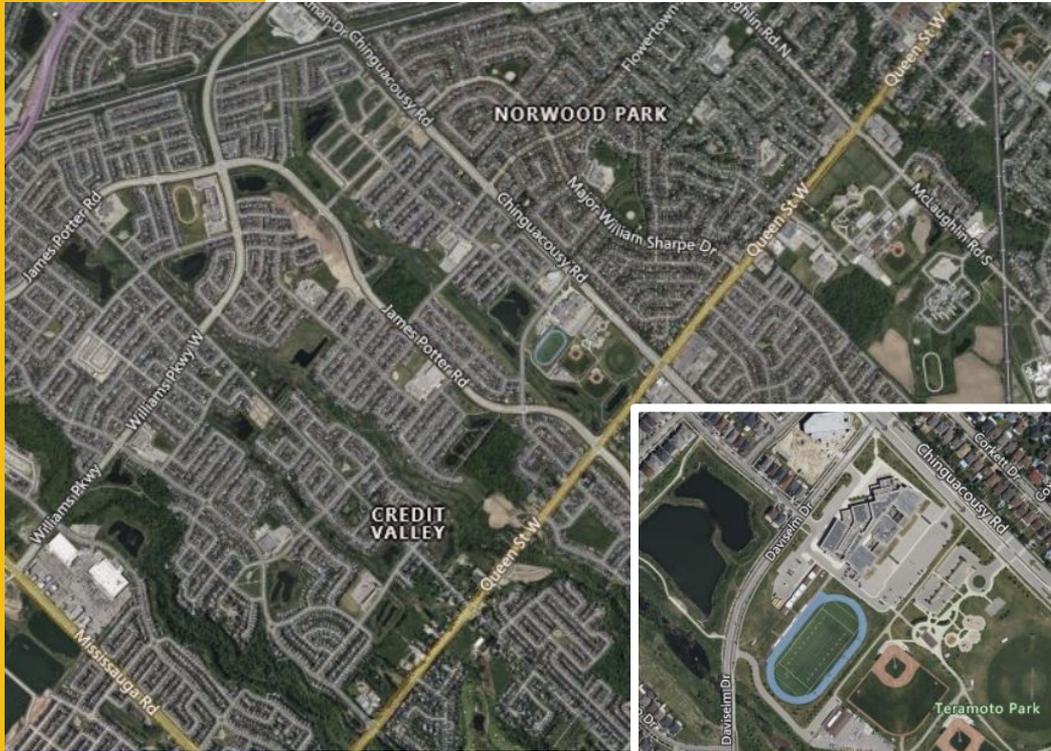
# Existing Telecommunication Infrastructure





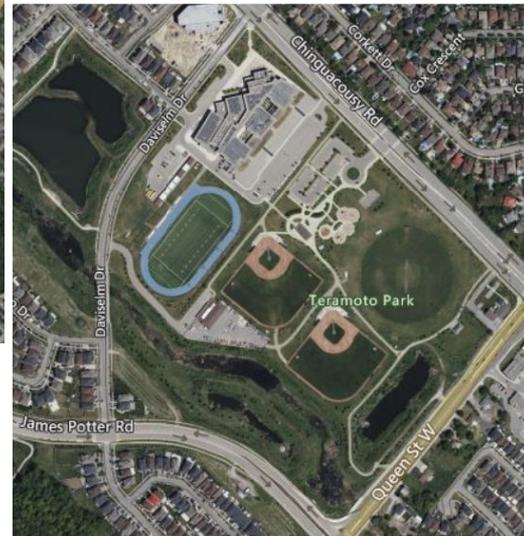
## Search Ring Factors

- Limited options within the search area that provide the best setbacks for surrounding land uses
- Credit Valley Conservation Regulated Areas
- Technology and wireless capabilities
- Proximity to Existing Infrastructure
- Suitable location for co-location to decrease the need for more towers in the area



**Teramoto Park**

Provides optimal setbacks while providing required network solutions to an area with otherwise limited options due to density of residential



Leasing City-owned lands for telecommunication infrastructure:

- Allows Shared Tower to work with staff to investigate suitable locations for the network
- Locations will balance network requirements in order to solve coverage and capacity gaps
- Communities with heavy network usage and dense residential areas can be provided improved coverage
- Maximize setbacks



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# Thank you

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