

Clause 4 in Report No. 11 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on June 23, 2016.

4 York Region Broadband Strategy Annual Update

Committee of the Whole recommends:

- 1. Receipt of the presentation by Doug Lindeblom, Director, Economic Strategy.
- 2. Adoption of the following recommendation contained in the report dated June 3, 2016 from the Commissioner of Corporate Services and Chief Planner:
 - The Regional Clerk circulate a copy of this report for consideration to York Region Members of Parliament and Members of Provincial Parliament, local municipalities, Ontario Ministry of Economic Development and Infrastructure, and the Federal Department of Innovation, Science and Economic Development.

Report dated June 3, 2016 from the Commissioner of Corporate Services and Chief Planner now follows:

1. Recommendation

It is recommended that:

1. The Regional Clerk circulate a copy of this report for consideration to York Region Members of Parliament and Members of Provincial Parliament, Local municipalities, Ontario Ministry of Economic Development and Infrastructure; and The Federal Department of Innovation, Science and Economic Development.

2. Purpose

This report provides an annual update to Regional Council on activities and progress made toward implementing York Region's Broadband Strategy.

3. Background

Broadband connectivity is a key component of the York Region Economic Development Action Plan

Improved broadband connectivity can help influence investment and business growth while serving to enhance the live/work, access and lifestyle needs of communities throughout the Region. The "Innovation and Entrepreneur Development" section of the Council approved Economic Development Action Plan 2016 to 2019 is grounded in the principle that high-speed connectivity promotes economic growth.

The York Region Broadband Strategy provides priority areas of focus for improving connectivity in the Region

On May 15, 2014 Regional Council adopted the York Region Broadband Strategy. The strategy includes recommendations for improving access to highspeed internet connectivity for residents, businesses and institutions throughout York Region.

Figure 1: York Region Broadband Strategy Overview, summarizes the vision and priority areas contained within the Broadband Strategy.

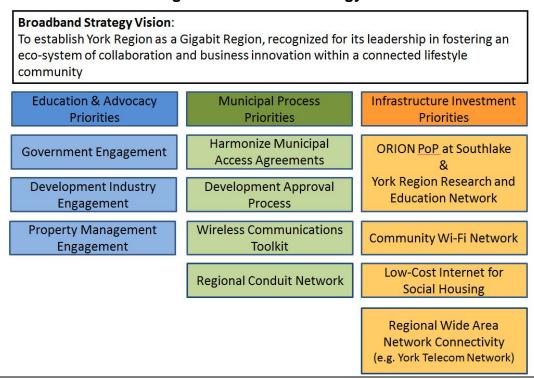


Figure 1 York Region Broadband Strategy Overview

A delegation of Regional Council met with the Prime Minister and several federal department representatives to promote York Region's infrastructure priorities and to request funding support

In February 2016, the York Region Chairman and CEO led a delegation to Parliament Hill to promote the Region's infrastructure priorities and seek funding from the Federal Government to support Regional initiatives. The delegation met with Prime Minister Trudeau and representatives from the Department of Finance, the Department of Environment and Climate Change, the Department of Infrastructure and the Department of Innovation, Science and Economic Development.

Among the five priority areas discussed was the need to support broadband infrastructure activities, with an emphasis on improving connectivity in underserved areas across the Region.

4. Analysis and Options

A variety of initiatives have been completed to execute aspects of the Broadband Strategy

A number of initiatives have been completed since the last broadband update report provided to Regional Council in June 2015.

These initiatives, organized by Implementation Priority are described in Table 1.

Education and Advocacy Priorities			
Action	Responsibility		
Launched the York Region Broadband Strategy Advisory Task Force	The Task Force terms of reference is provided in Attachment 1. Five Task Force meetings engaging both the public and private sectors have been held: October 9, 2015, December 15, 2015, Feb 3, 2016, March 30, 2016 and June 1, 2016. Attachment 2 provides a summary of the topics and outcomes from the meetings.	York Region and local municipalities	
York Region Broadband & Innovation Summit	The first annual York Region Broadband & Innovation Summit was held on October 30, 2015 in conjunction with the TAVES Consumer Electronics Show.	York Region	

Table 1Completed Initiatives

Advocacy	The theme was priorities, actions and measures the Region and stakeholders can pursue to achieve economic success. 130 attendees from the private sector, multiple levels of government and academia. 95% of respondents indicated they would attend the Summit again. Provided Input to the CRTC 2015-134: Review of Basic Telecommunications Services. The Canadian Radio-television and Telecommunications Commission (CRTC) is examining which telecommunications services Canadians require to participate meaningfully in the digital economy, as well as the CRTC's role in ensuring the availability of affordable basic telecommunications services to all Canadians. York Region provided input on the disparity of broadband access in rural versus urban areas within the Region to the Federation of Canadian Municipalities (FCM). This input was included in the FCM's final submission to the CRTC on the impact of broadband access, speeds and costs on	York Region and local municipalities
	communities across Canada. A copy of the submission is provided as Attachment 3.	
	Municipal Process Priorities	
Action	Description	Responsibility
Develop Broadband Planning Policy Language Tool	 Proposed language for inclusion in local municipal: official plans to mandate, to the extent possible, broadband infrastructure in new development areas. subdivision agreements that ensures all CRTC registered telecommunications service providers are given an opportunity to locate infrastructure in proposed municipal rights-ofway, as appropriate. The details of this initiative are outlined in the May 12, 2016 Committee of the Whole report titled: Proposed Broadband-Enabling Planning Policy Language. 	York Region and local municipalities

York Region Broadband Strategy Annual Update

Infrastructure Investment Priorities				
Action	tion Description			
York Telecom Network Governance Review	Regional staff engaged consulting firm IBI Group to complete a review of potential governance options for the York Telecom Network. The principles were taken to the Task Force for advice. Details and results of this work are captured in the June 16, 2016 Committee of the Whole report titled: York Telecom Network Governance Review. This work will form the basis for developing the future business plan for the York	York Region		
Ontario Research and Innovation Optical Network (ORION) Media Event Public Wi-Fi Pilot	Telecom Network. York Region collaborated with ORION, Southlake Regional Health Centre, Town of Newmarket, York University and other stakeholders to facilitate the announcement of the ORION Point of Presence (PoP) installation at Southlake Regional Health Centre. A Media Event took place on October 9, 2015 and included addresses by: Ontario's Minister of Research and Innovation and Minister of Training, Colleges and Universities Reza Moridi; York Region Chairman and CEO Wayne Emmerson; Newmarket Mayor Tony Van Bynen; ORION CEO Darin Graham and Southlake Regional Health Centre CEO Dr. Dave Williams. York Region launched a pilot project providing	York Region, Newmarket, Southlake Regional Health Centre, ORION and York University		
Project	 Profix Region launched a plot project providing public wi-fi at the Richmond Hill Centre Terminal and in the Great Hall of the York Region Administrative Centre. This initiative was launched in December of 2015 and the results will be used to inform future public wi-fi requirements at Viva transit locations and in Regional public buildings. 	I OIK IXEGIOII		

A number of additional initiatives are underway to further advance the objectives of the Broadband Strategy

Staff will continue to lead and support various new and ongoing initiatives to continue the advancement of the York Region Broadband Strategy.

Ongoing initiatives organized by Implementation Priority are included in Table 2:

Table 2

Ongoing I	nitiatives
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Education and Advocacy Priorities					
Action	Description	Responsibility			
York Region Broadband Strategy Advisory Task Force	According to the Terms of Reference for the Broadband Strategy Advisory Task Force, meetings will continue until at least until the end of Q2-2017. Regional staff will continue to provide support to the Task Force and to bring forward items to be discussed and agreed upon by its members.	York Region and local municipalities			
Intelligent Communities Initiatives	During the March 30, 2016 meeting of the Broadband Strategy Advisory Task Force, a motion was passed that Regional staff investigate and report back on options for York Region to become recognized as an intelligent community.	York Region			
York Region Broadband & Innovation Summit	The second annual York Region Broadband & Innovation Summit will leverage the successes of the 2015 event. It will take place on October 28, 2016, again in conjunction with the TAVES Consumer Electronics Show. The proposed theme will be centered on "York Region as an Intelligent Community" and the working agenda includes a keynote address from an industry expert and a moderated interactive working session. The working session will involve collecting audience input on the steps that York Region has taken and should take toward becoming an Intelligent Community.	York Region			
	Municipal Process Priorities				
Action	Description	Responsibility			
York (Wireless) Telecom Policy Update	Regional Staff have engaged CommSiteWorks to gather best practices to develop policies for installing wireless communications infrastructure on properties and in rights-of-way owned by the Region. This policy will be shared with the local municipalities	York Region			
	for consideration. This will help to harmonize wireless communications infrastructure siting policies and practices across York Region. This will help to make York Region and its local				

2016 York Region Official Plan Update	 municipalities more attractive for wireless infrastructure investment by the private sector. This policy update is expected to be completed in Q3–2016. A recommendation of the Broadband Planning Policy Language Tool included the addition of appropriate language in the York Region Official Plan mandating (to the extent possible) broadband infrastructure in new development areas. This would be facilitated through the current Municipal Comprehensive Review, and will result in the adoption of similar language in Local Municipal Official Plans and Secondary Plans as they are updated to conform to the Regional Official Plan. Regional staff will work to ensure the required language is added to the York Region Official Plan in Chapter 4: Economic Vitality. 	York Region
	Infrastructure Investment Priorities	<u> </u>
Action	Description	Responsibility
York Telecom Network Business Plan	Building on the outcome of the June 16, 2016 Committee of the Whole report titled: York Telecom Network Governance Review, York Region staff will oversee the development of a Business Plan for the York Telecom Network. This plan will determine governance structure, staffing requirements, potential partners, clients and pricing. This plan will be presented to the Broadband Strategy Advisory Task Force and Committee of the Whole before the end of 2016.	York Region
York Region Research & Education Network	Regional staff will work with ORION and the Municipal, University, School and Hospital (MUSH) sector across the Region to facilitate the development a York Region Research and Education Network leveraging the ORION PoP at Southlake Regional Health Centre. Such a network would provide the MUSH stakeholders with an ultra-high-speed link to ORION, which can be leveraged for educational, research and business development purposes. Staff will continue to explore how municipal broadband infrastructure projects can be leveraged to attract investments and senior government funding to increase	York Region, Southlake Regional Health Centre, ORION and York University

	connectivity across the Region.	
Ongoing Engagement with Local Municipalities and Telecom Service Providers	Regional staff will continue to engage local municipal staff and Telecom Service Providers on initiatives that fall under the Implementation Priority areas of the York Region Broadband Strategy. This will include exploration of pilot projects that leverage Regional assets such as rights-of-way, the York Telecom Network and properties such as buildings and towers. Staff will also investigate the development of a broadband infrastructure network concept similar to models like Eastern Ontario Regional Network (EORN) and SouthWestern Integrated Fibre Technology (SWIFT) that helps meet economic development and rural connectivity needs. Lessons learned from the Trail of the Woods project and ORION implementation will be leveraged.	York Region

Link to key Council-approved plans

Regional Council has approved a number of strategic documents that provide direction within the current term of Council and beyond, regarding the significant role that broadband access plays in supporting Economic Development:

- Vision 2051; Fostering an Innovation Economy to be supported by "Infrastructure and Resources Supporting a Knowledge Economy"
- York Region Official Plan 2010; Economic Vitality (Chapter 4) states that broadband-related initiatives support the York Region Official Plan objective "To encourage and accommodate economic activities that diversify and strengthen the Region's economic base, employment opportunities for residents and competitive advantage for its businesses."
- 2015 to 2019 Strategic Plan; Strengthen the Region's Economy Objective 3: "focusing on networks and systems that connect people, goods and services"
- The Economic Development Action Plan 2016 to 2019 Section C "Innovation and Entrepreneur Development" is grounded in the fact that high-speed connectivity promotes economic growth

5. Financial Implications

Resources allocated to the development of the York Region Broadband Advisory Task Force and the execution of the various elements of the York Region Broadband Strategy are implemented primarily through the budget of the Planning and Economic Development Branch, in partnership with other departments, local economic development offices and external program delivery partners.

6. Local Municipal Impact

The York Region Broadband Strategy was initiated and funded in partnership with all nine local municipalities. Ongoing participation by and partnerships with and amongst the local municipalities are critical to full execution of the Strategy and will continue to be key in successfully identifying and implementing broadband-related priorities for their respective communities.

7. Conclusion

The role that broadband plays in the economic well-being of the modern economy continues to grow as does York Region's opportunity to enable improved access to high-speed broadband to businesses, institutions and residents across the Region. Over the past year, York Region and its partners have been actively engaged in fulfilling the objectives of the York Region Broadband Strategy, resulting in the completion of numerous initiatives that have moved the Region closer to reaching its broadband goals.

There is still much work to be done and future efforts will focus on guiding York Region toward becoming an Intelligent Community.

For more information on this report, please contact Doug Lindeblom, Director, Economic Strategy at ext.71503.

The Senior Management Group has reviewed this report.

June 3, 2016

Attachments (3)

#6796189

Accessible formats or communication supports are available upon request

Final Approved Terms of Reference

Council Advisory Task Force: Regional Broadband

Purpose	What will the Regional Broadband Advisory Task Force do and why?				
to York Region staff in the d	The Regional Broadband Advisory Task Force is an advisory body of Council to provide feedback to York Region staff in the development of tools, policies and working groups to advance the goals of the York Region Broadband Strategy.				
Background	Why was it created?				
opportunities throughout Y	Strategy was developed to identify connectivity issues and ork Region and to provide a framework for addressing the egion's residents, businesses and institutions.				
 The key Priority Areas requise Education and Advo Municipal Process Infrastructure Invest 					
Composition	Who is on the Regional Broadband Advisory Task Force ?				
	gional Broadband Advisory Task Force is to be determined by York				
Region Council.					
 Suggestions include: Chair of the Planning and Economic Development Committee (PEDC) A Regional Council representative from each local municipality 					
 A Regional Council representative from each local multiplanty The Advisory Task Force will be supported by representatives from senior management and the following departments and services: Transportation Services Community and Health Services Environmental Services Corporate Services Finance York Region Rapid Transit Corporation 					

York Regional Police

Term of Membership	How long is the commitment for the Regional Broadband Advisory Task Force?			
The Advisory Task Force term is anticipated to be between 18 and 24 months; subject to further review after 18 months.				
Decision-Making	How does the Regional Broadband Advisory Task Force make decisions?			
The Advisory Task Force is an advisory body to Regional staff. Decisions will be made by Regional Council.				
Responsibilities	How will the Regional Broadband Advisory Task Force work together to meet its purpose?			
	and connectivity across the Region oals, outcomes and timelines for the York Region			
Meeting Logistics	When does the Regional Broadband Advisory Task Force meet?			
The Advisory Task Force will meet quarterly, or as required, to review and discuss issues and action items pertaining to the execution of the York Region Broadband Strategy. The proposed meeting schedule is as follows: Inaugural Meeting – as late as Q3 2015, or as determined by availability of Task Force Membership: Overview of the Broadband Strategy and identification of key actions under each Priority Area Subsequent Meetings – to the end of the Advisory Task Force Term: Broadband Strategy project updates, opportunities and discussion Meetings of the Advisory Task Force will be approximately two hours in length.				
	What needs to be done and by whom?			
 Branch will solicit agenda items and p Planning and Economic Developmen related activities, including: workplan development, mor activities to support complet overall administration of the Regional Broadband Advisory Task Formation and position of the support completed activities and position and posit	ith the Planning and Economic Development orepare meeting agendas and minutes. It Branch staff will be responsible for meeting- nitoring, maintenance and reporting ion of deliverables of the Advisory Task Force Advisory Task Force orce input will guide staff recommendations and be ans and reports to Council, as appropriate.			

Meeting Date	October 9, 2015	December 16, 2015	February 3, 2016	March 30, 2016	June 1, 2016
Topics and outcomes	 Elections of Chair and Vice-Chair Chair: Mayor Van Bynen Vice-Chair: Mayor Dawe Broadband Strategy Overview and Update of Initiatives Ultra-High Speed Broadband in the GTHA Broadband Summit Overview	 Broadband & Innovation Summit Re- cap York Telecom Network Update Broadband Case Studies 	 Broadband Strategy Recap/Path Forward Discussion Regional Municipality of York Departmental Broadband Uses & Needs YTN – the Possibilities Private Sector Perspectives/ Investment Plans 	 Proposed Broadband- Enabling Planning Policy Language May 12 Committee of the Whole report on Proposed Broadband Enabling Planning Policy Language YTN Governance Direction June 16 Committee of the Whole report on the YTN Governance Review recommendation ICF Intelligent Community Designation (requirements & implications) Staff to investigate and report back on options for York Region to become recognized as an intelligent community Private Sector Perspectives/ Investment Plans 	 Recent CRTC rulings and what they mean York (Wireless) Telecom Policy Update Q3 Committee of the Whole report on York Telecom Policy (wireless update) SWIFT Overview EORN Overview Benefits of "Smarter" Communities – IBM Canada

Summary of Broadband Strategy Advisory Task Force meeting topics and outcomes

Related Milestones:

Task Force Terms of Reference
First Task Force Meeting
Broadband & Innovation Summit
York Telecom Network Governance Review Completion
Broadband-Enabling Planning Policy Report
York Telecom Network Governance Review Report

Attachment 3

Wayne Emmerson Chairman and CEO



The Regional Municipality of York 17250 Yonge Street Newmarket, Ontario L3Y 6Z1

Tel: 905-895-1231

email: wayne.emmerson@york.ca

May 13, 2016

Mr. Raymond Louie, President Federation of Canadian Municipalities 24 Clarence Street Ottawa, ON K1N 5P3

Dear Mr. Louie:

On behalf of the Regional Municipality of York, I am pleased to share our thoughts on the Federation of Canadian Municipalities' final submission regarding *CRTC* 2015-134: Review of basic telecommunications services.

The Regional Municipality of York strongly supports the efforts of the Federation of Canadian Municipalities to ensure that broadband access becomes a basic telecommunications service for all Canadians. We urge you to convey our support with the CRTC as we are very closely aligned on this issue.

Improving high-speed broadband access is a strategic priority for York Region. Access to broadband is an economic development imperative that creates jobs, reduces traffic congestion, and fosters innovation. Empirical evidence indicates that increasing connectivity speeds directly impacts gross domestic product output in communities. Investing in broadband infrastructure creates a significant return on investment for communities and senior levels of government beyond the investment made by service providers.

With a population of 1.2 million residents and nearly 50,000 businesses, York Region is one of the largest and fastest growing municipalities in the country. Yet, a study undertaken in 2013 of broadband accessibility in the Region identified a significant disparity in service between our urban communities and the more rural areas of the Region. The issue of rural connectivity exists, even on the fringes of our largest and most prosperous cities.

Some challenges include:

 Insufficient broadband capacity was the top issue raised by rural based businesses during recent consultations on the Region's Economic Development Action Plan; businesses cited a competitive disadvantage due to a lack of affordable, reliable highspeed broadband. They indicate that this negatively impacts their ability to grow and attract highly skilled talent

- In rural communities many of our residents say their children cannot study and complete assignments at home due to insufficient broadband capacity, forcing them to travel to places where adequate Wi-Fi services are available
- Residents in rural subdivisions have partnered with internet service providers and their local municipality to develop solutions. To date applications by these groups to access the "Digital Canada 150-Connecting Canadians" funding have been unsuccessful
- Our businesses have expressed that greater emphasis needs to be placed on servicing key business centres, employment areas, and industrial parks as well as near-urban locations that depend on small and home-based operations. This is in keeping with Ontario Chamber of Commerce findings, whose recent resolution calls for:
 - benchmarking Ontario's internet speeds and access versus competitor jurisdictions
 - o considering a 5 year target of 1Gbps (Business) and 50 Mbps (Residential)
 - o a 10 year target of 10 Gbps (Business) and 250 Mbps (Residential)

To help address these issues, Regional Council approved a Broadband Strategy in 2014 with a stated vision to: "Establish York Region as a Gigabit Region, recognized for its leadership in fostering an eco-system of collaboration and business innovation within a connected lifestyle community".

Regional Council approved an advisory taskforce in 2015 to address the challenges of meeting the goals of our Broadband Strategy. Members of our Broadband Strategy Advisory Task Force are also working closely with the Province of Ontario through the Premier's Economic Working Group (Broadband Sub-committee) to explore ways to enhance connectivity in communities.

High-speed broadband connectivity is as fundamental to today's economy as Canada-wide postal service was following Confederation. Like the legislation that framed universal postal service nearly 150 years ago, a strong federal commitment is required to ensure no community is left behind.

Sincerely,

Wayne Emmerson Chairman and CEO

cc Mayor Tony Van Bynen, Chair - Broadband Strategy Task Force Mayor Geoffrey Dawe, Vice Chair - Broadband Strategy Task Force Bruce Macgregor, Chief Administrative Officer

Broadband Strategy Update and York Telecom Network Review

Presentation to Committee of the Whole Council Doug Lindeblom June 16, 2016





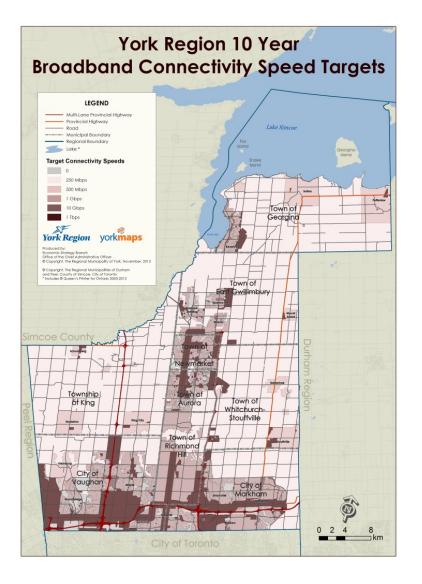
- Provide an annual update on York Region Broadband Strategy initiatives
- Provide an overview and recommendations for the York Telecom Network Phase 1 Review

Broadband Strategy Update



Elevating broadband access and capacity supports economic activity and job growth

Broadband Strategy Direction



Connectivity Priorities

- Centres & Corridors
- Employment Lands
- Rural Areas

Hierarchy of Approaches

- Private Investment
- Public-Private Partnerships
- Public Investment

A range of approaches and initiatives is required to improve connectivity across the Region

Broadband Strategy Vision:

To establish York Region as a Gigabit Region...

Education & Advocacy Priorities	Municipal Process Priorities	Infrastructure Investment Priorities
Government Engagement	Harmonize Municipal Access Agreements	ORION PoP at Southlake &
Development Industry Engagement	Development Approval Process	York Region Research and Education Network
Property Management Engagement	Wireless Communications Toolkit	Community Wi-Fi Network
Regional Conduit Network		Low-Cost Internet for Social Housing
Council endorsed the Vis Priorities of the Broads	Regional Wide Area Network Connectivity (e.g. York Telecom Network)	

Accomplishments - Education & Advocacy



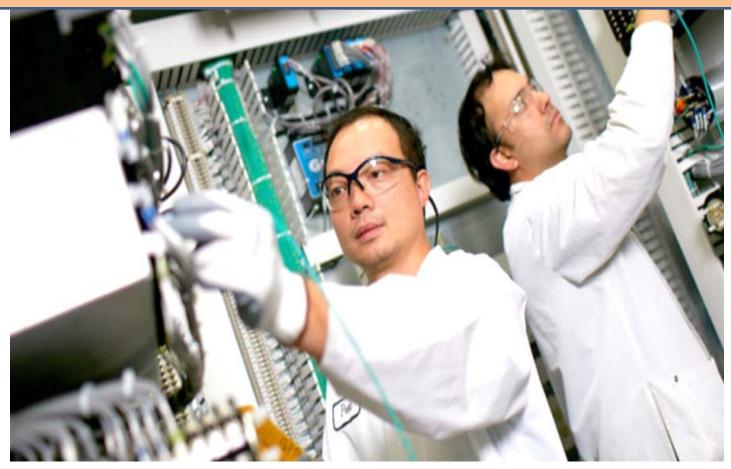
Engaging the public and private sector enables awareness and promotes partnerships that support connectivity

Accomplishments – Municipal Process



Improving processes will help attract and enable Broadband investment

Accomplishments – Infrastructure Investments



Coordinating broadband infrastructure builds will leverage increased connectivity

Broadband Strategy – What's Next

- Continue Broadband Strategy Advisory Task Force
- Initiate Intelligent Community Initiative (2016 2018)
- Undertake 2nd Annual Broadband & Innovation Summit (Oct 2016)
- Revise York Region (Wireless) Telecom Policy (Q4 2016)
- Establish York Telecom Network Governance & Business
 Structure (End of 2016)

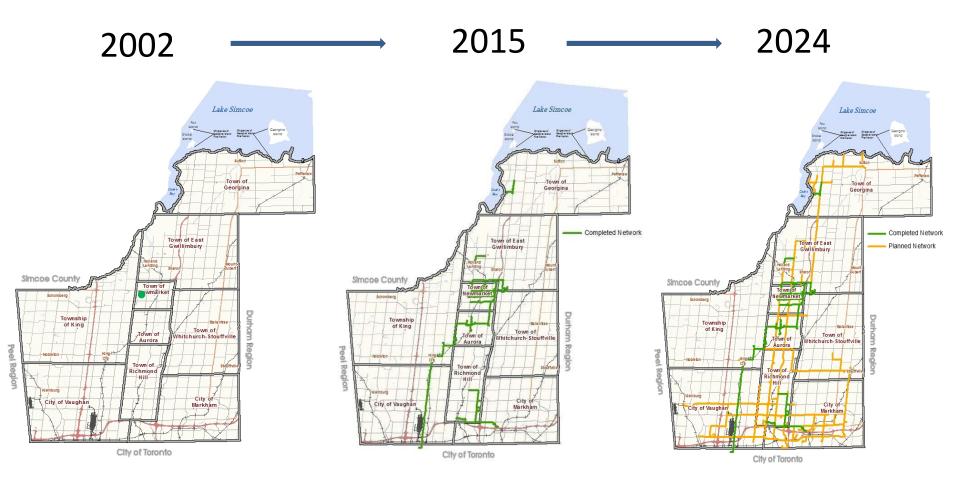
Ongoing efforts to enable connectivity are critical for maintaining and improving York Region's competitiveness and attractiveness

York Telecom Network Governance Review



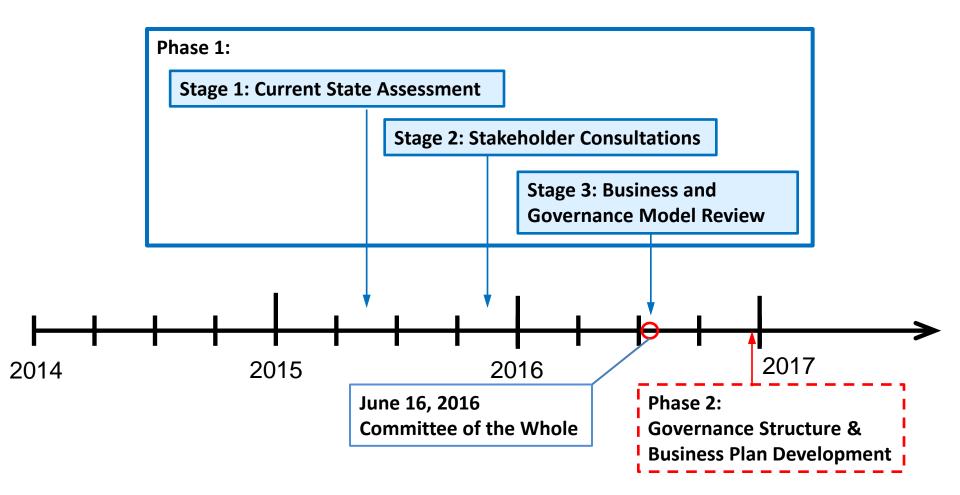
The York Telecom Network is the Region owned dark fibre network connecting the Region and partners buildings and 'things'

York Telecom Network Growth

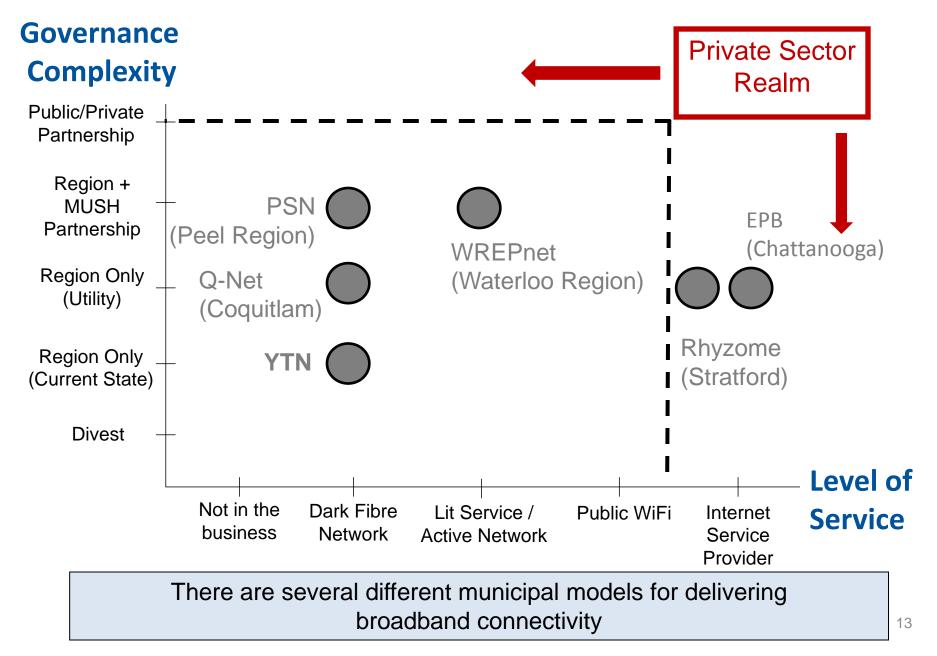


Growth in demand, complexity and costs prompted a review of the York Telecom Network

York Telecom Network Review Process



Positioning YTN – Governance and Service Options



Policy Direction Considerations

- Role and Scope
- Ownership
- Governance
- Users
- Financials

Proposed policy directions for York Telecom Network were reviewed by the Broadband Strategy Advisory Task Force

Conclusions from the Review

- Continue to operate York Telecom Network
- Formalize a structure for governance and operations
- Establish a sustainable business model
- Continue to lease dark fibre capacity to public sector subscribers
- Consider private sector leasing options as appropriate
- Develop a governance model that would not preclude adding other future network owners/partners

Phase 1 concludes that the York Telecom Network should continue but with a formal plan, more structure and consideration for partnerships

Recommendations

- Develop the York Telecom Network as a Region owned fibre network based on principles outlined in the report
- Report back to Council by the end of 2016 with a detailed governance structure and financial and business plan
- Circulate the report to municipalities and network stakeholders