

Rural Project #4

Providing Fixed
Wireless Access in the
Township of Lake of Bays

CENGN Residential Broadband Program



Support and validate innovative technology solutions and new business models to expand broadband access to rural and remote communities

Program Elements

- ✓ 12 projects across Northern and Rural Ontario over the last 2 years
- ✓ 3-6 months to full service to prove residential broadband technology solution
- \checkmark High speed reliable 50/10 internet services to underserved residents
- ✓ 50% of expenses funded by CENGN to solution provider, up to \$500K per project
- √ No cost to host community participating in residential broadband project
- ✓ Select solution providers with the drive, ability, experience, and technology to deploy a commercial service that meets the broadband needs of the community
- ✓ Technology solution could be extended to nearby communities easily



CENGN enables innovative tech solutions through its Rural & Northern Ontario Residential Broadband Program



Compile Collection of Blueprints for Broadband Innovation

















Collection of
Broadband Solutions Blueprints for
Small Northern and Rural
Communities



High on Innovation

Low on Cost

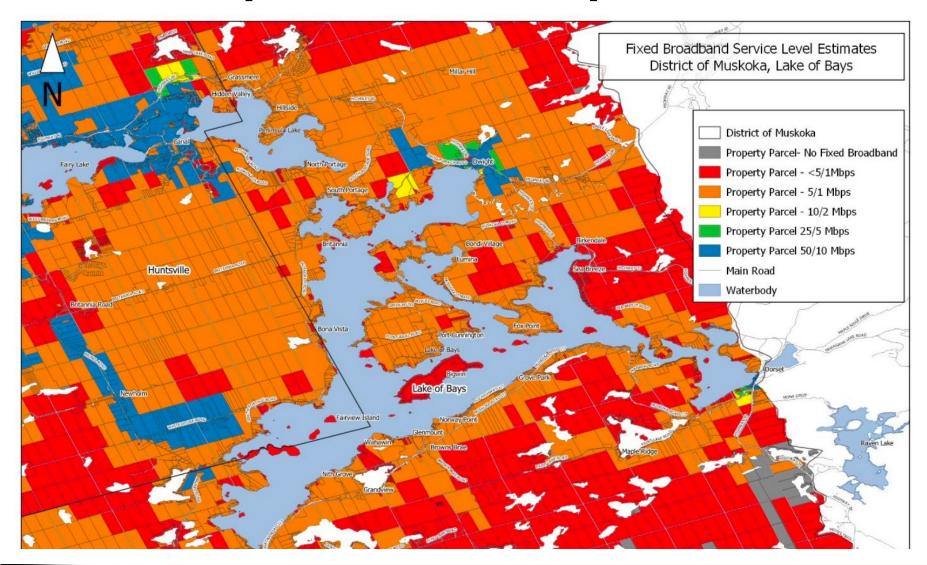


Problem Statement for Rural Project #4

Utilizing one or more available access corridors, in whole or in part, to extend broadband access to underserved residences. Example of Access Corridors include, but not limited to abandoned rail beds, unused road allowances, recreation trails, municipal right of ways, municipal properties etc.

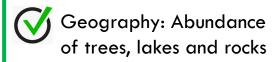


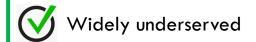
Township of Lake of Bays — Service Level Estimates













Service Provider: Lakeland Energy

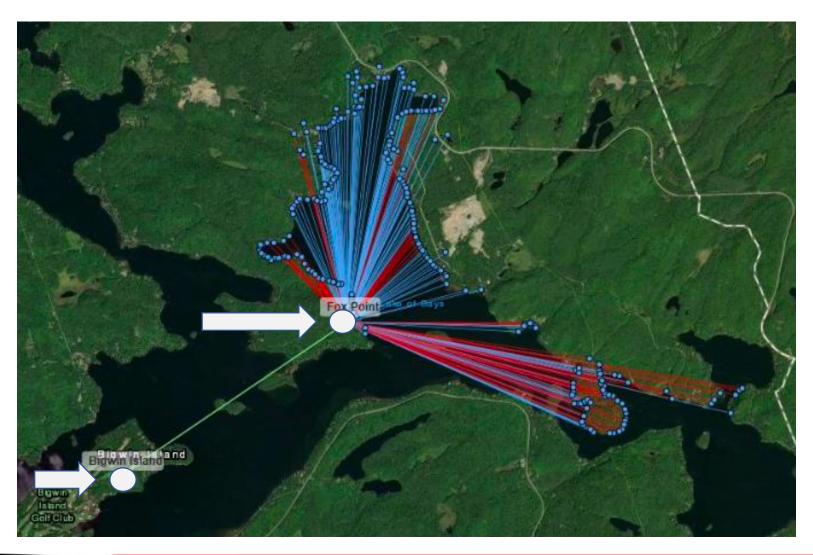




- Lakeland Energy is an established regional ISP providing optical and wireless broadband to 6,300 customers across Parry Sound Muskoka area
- Lakeland Networks is the retail brand of Lakeland Energy
- Over 500 km of fibre optic network and 118 towers for wireless infrastructure
- Coverage area of 4,000 square kilometers
- Service offerings include Internet, Phone and Digital TV services



Proposed Network Design



- Lakeland will utilize existing
 Fibre backhaul to Bigwin Island
- At the Fox point location, Lakeland has an existing abandoned tower site within a municipal road allowance
- A new 100' Super Titan tower will be installed to provide wireless solution to 225 underserviced homes, around the 10 Mile Bay, and into Emerald Bay



Community Benefits of Project



Very high backhaul capacity



Optimal location for service coverage: Structure relocated closer to the waterfront



Choice of new high performance 25/5 and 50/10 broadband internet access



Quick deployment leading to faster time to service



Easy expansion for potential future builds





THANK YOU!