

Providing Microduct
Distributed Split Fibre
Solution in Shelter
Valley Area

Project Problem Statement

A technology solution required to provide a high-resilience and high-performance solution to rural Ontario communities located in a valley making access to residential broadband or high-speed internet access difficult.



Selected Service Provider



Algonquin Fiber is committed to providing fast, reliable and affordable internet to rural communities using FTTH technology.



Headquartered in Dwight, Ontario



Consortium of strong technology partners



Extensive experience in residential and commercial broadband deployment in Ontario



Innovative approach to fibre installation and material cost reduction



Great customer support and service



Township of Alnwick/Haldimand (Shelter Valley Road)



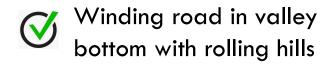














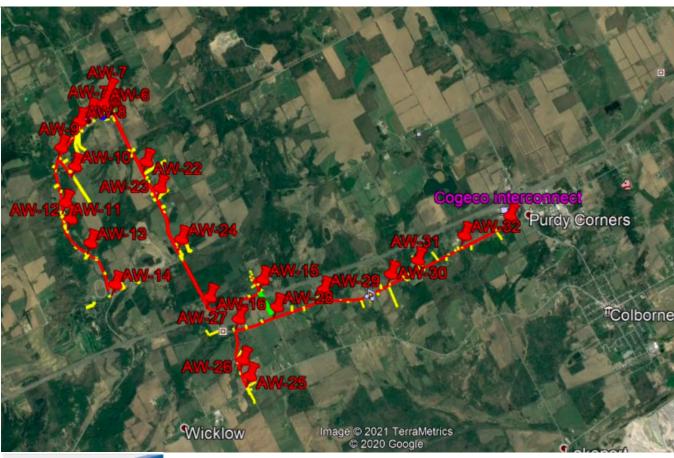






Micro-Duct Optical Design







Micro-duct Distributed Split Fibre Solution



Technology Innovation

- Buried fibre eliminates need for pole access engineering and leasing costs
- **W** Buried fibre eliminates radio shadow issues in deep narrow valley
- Higher reliability since fibre is not subject to freezing rain, falling trees, snow, or wind loads
- Innovative approach to fibre installation and material cost reduction
 - Smaller in size (lower cost)
 - Enables future proofing (unlimited future data capacity)
 - Blowing solution is cost effective (lower cost than pulling fibre through conduit)
 - Distributed split allows smaller fibre count per mini-ducts



Community Benefits of Project



High-speed reliable and futureproof broadband internet services to underserved residents in a difficult terrain



Multiple options for access to residents (50/50Mbps and 100/100 Mbps)

Choice of technology depending on speed of access desired



This technology solution could be extended to the other nearby communities easily

Significantly reduced incremental cost per community



Affordably priced to encourage service take up

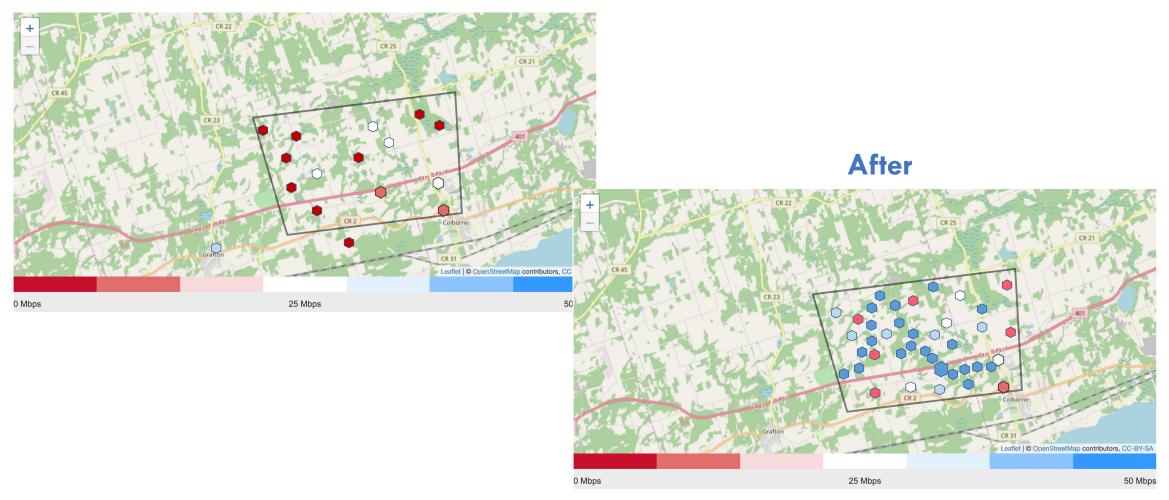


No data cap, no overages



Visualizing Proposed Internet Access Performance Improvements









THANK YOU!