

# Governor's Task Force on Broadband *CTC Presentation*

Presented by:

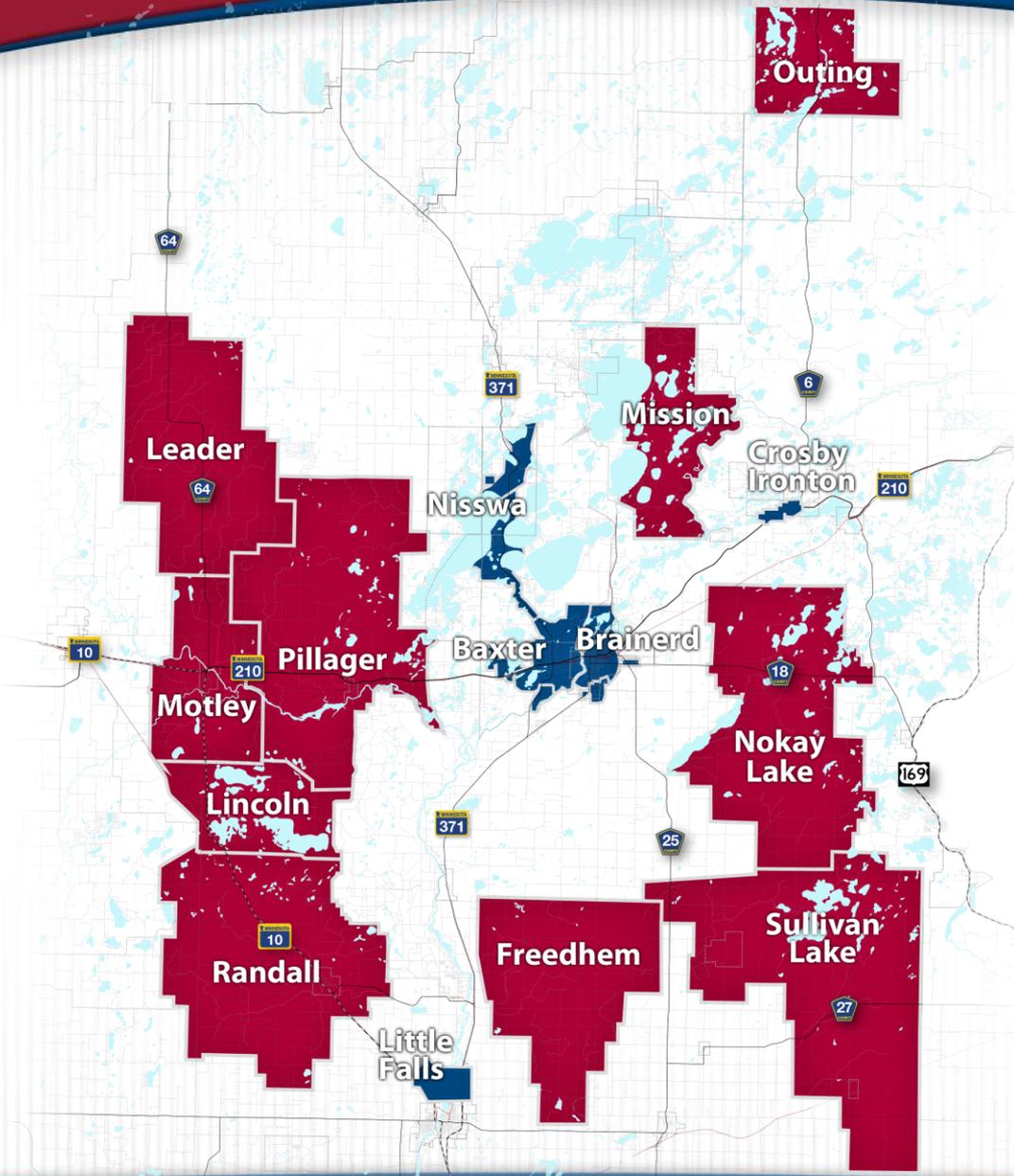
Kevin Larson, CEO/General Manager

Kristi Westbrook, COO

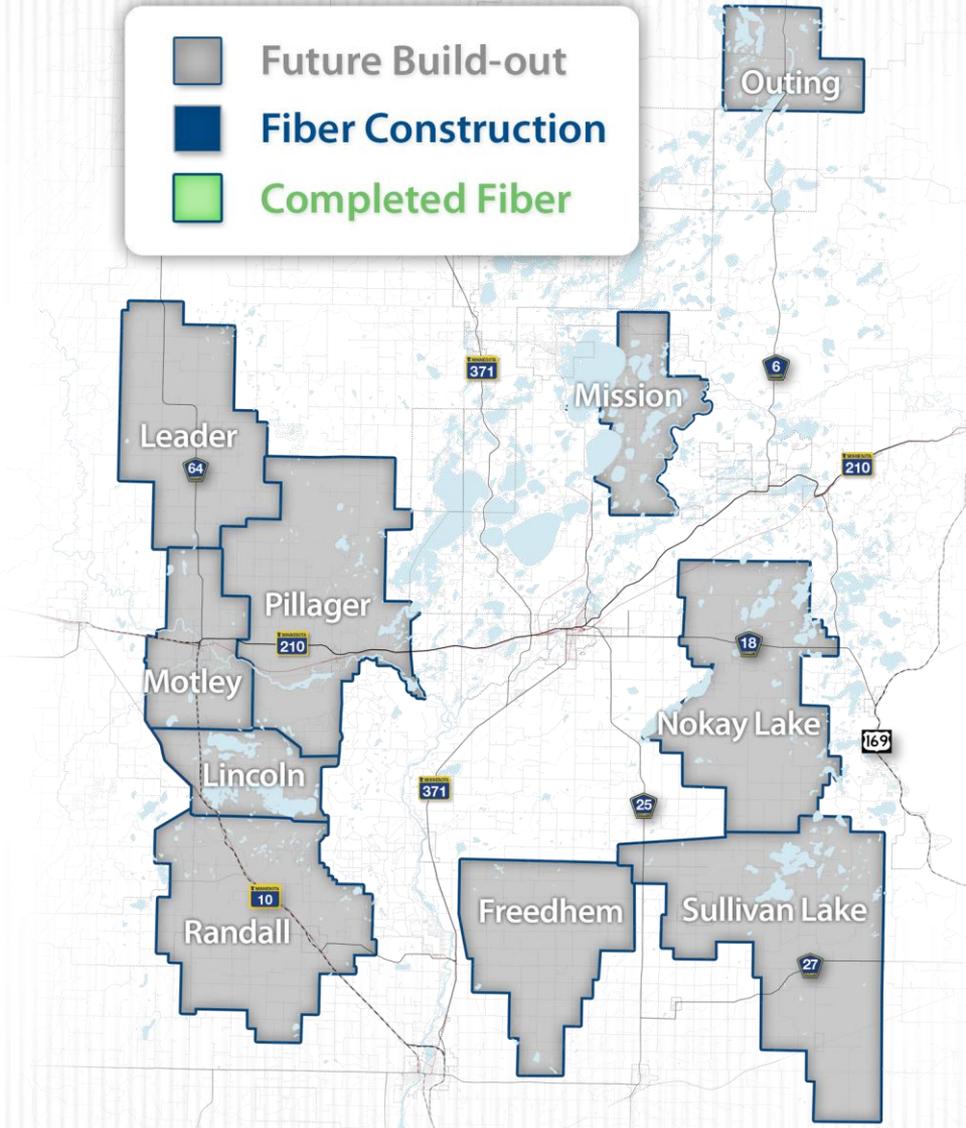


# Here's to Humanity

- <https://www.youtube.com/watch?v=bAOWpdQeyBQ>

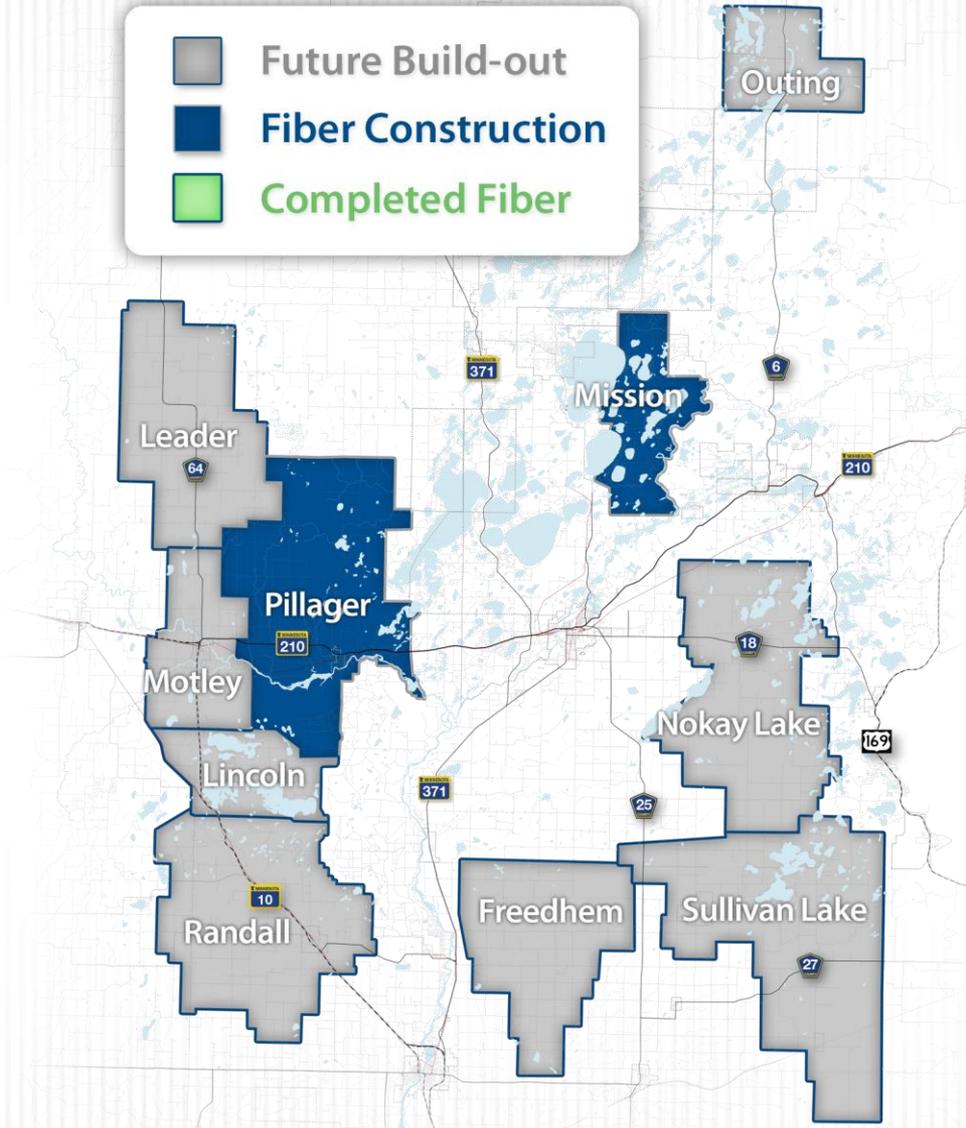


-  Future Build-out
-  Fiber Construction
-  Completed Fiber



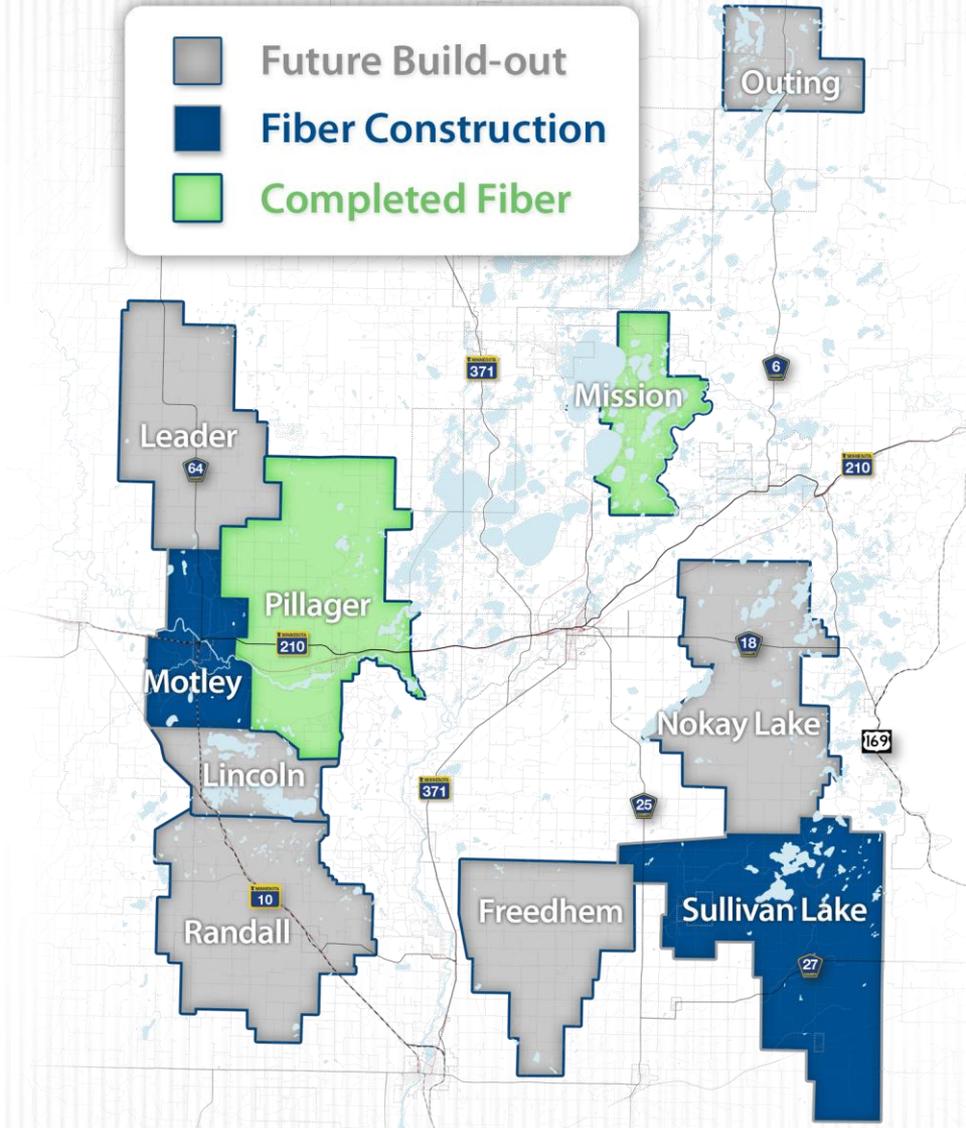
**2008**

-  Future Build-out
-  Fiber Construction
-  Completed Fiber



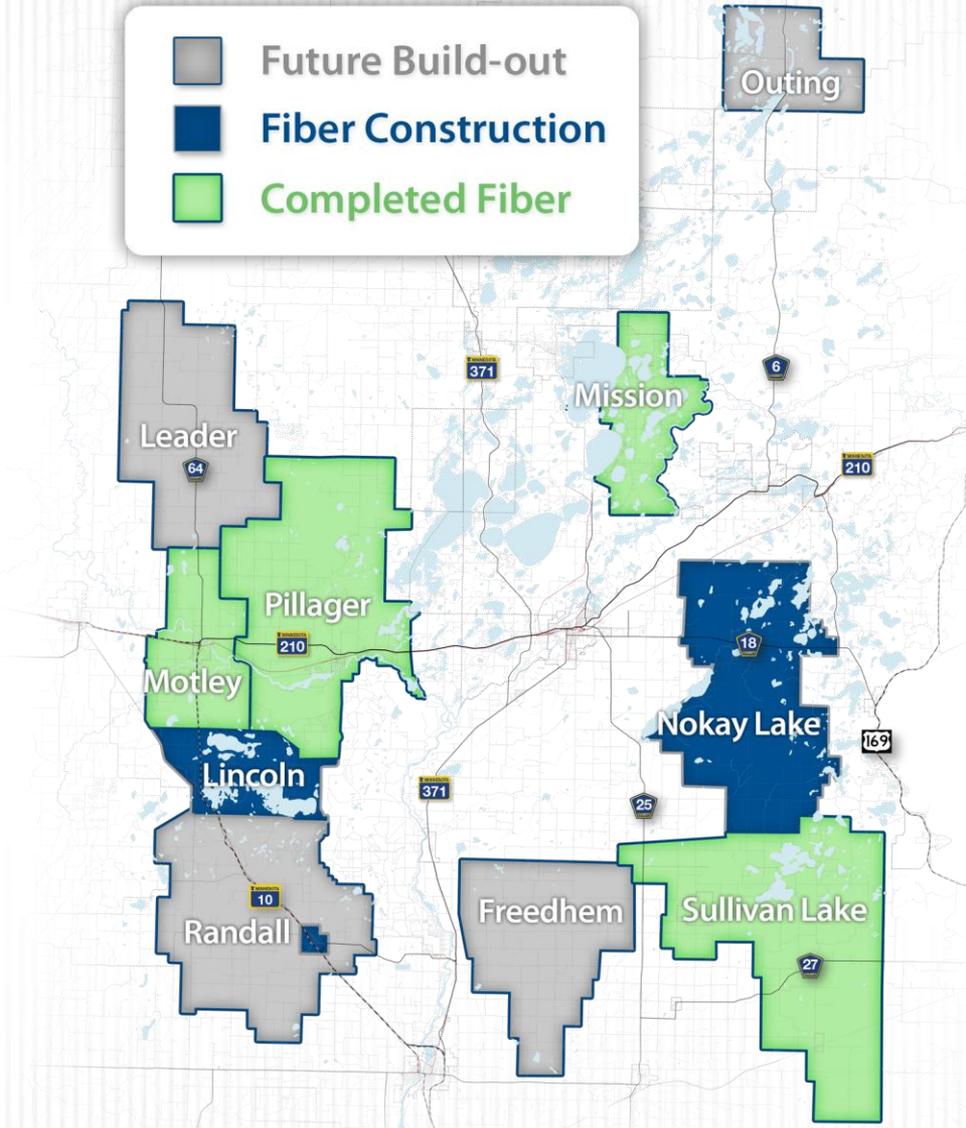
# 2009-10

-  Future Build-out
-  Fiber Construction
-  Completed Fiber



# 2011

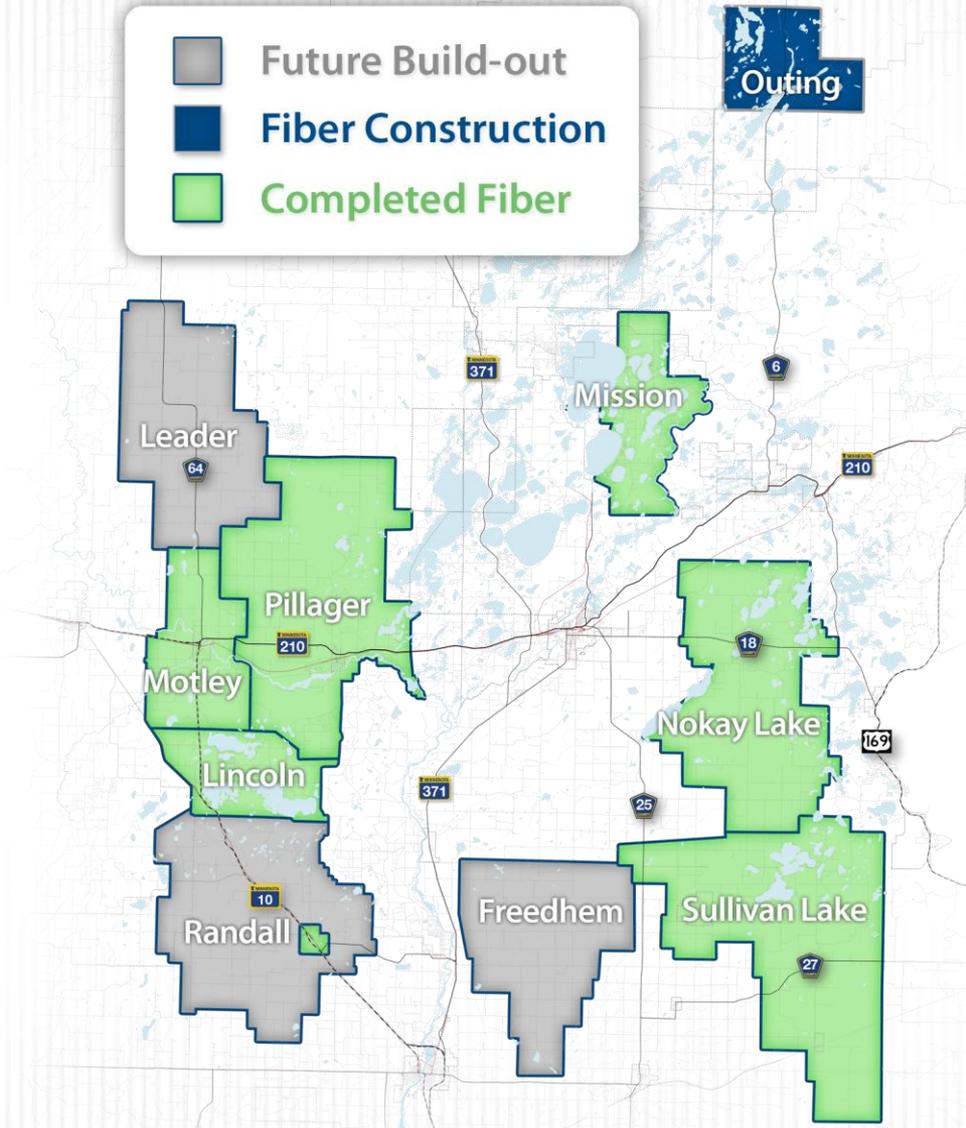
-  Future Build-out
-  Fiber Construction
-  Completed Fiber



2012

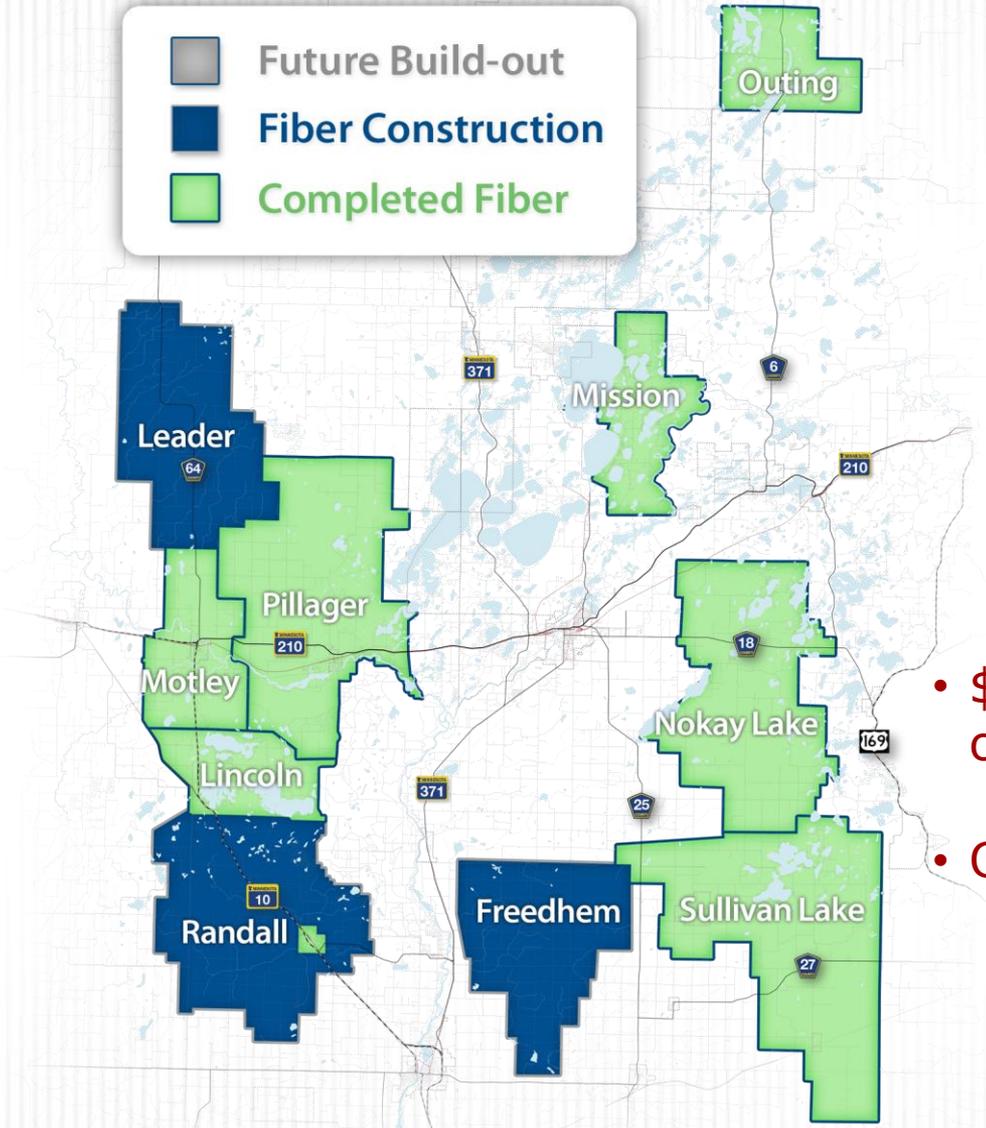
-  Future Build-out
-  Fiber Construction
-  Completed Fiber

 Outing



**2013-14**

	Future Build-out
	Fiber Construction
	Completed Fiber

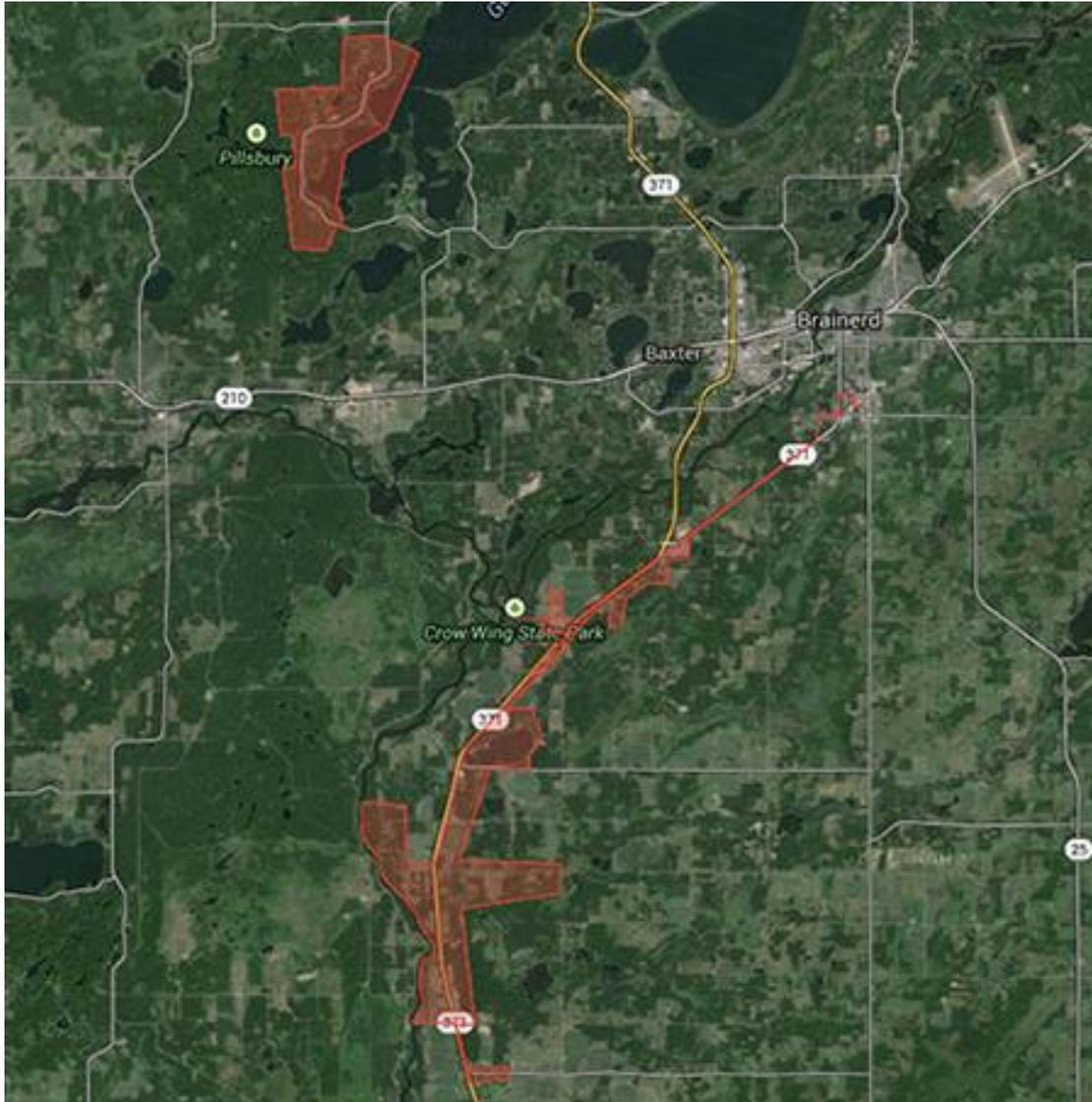


# 2015

- \$62 million invested in fiber optics over six years
- Over 150 employees on CTC Projects

# ***Fiber Expansion Brainerd, Baxter, Little Falls and Nisswa***

- 10 Year Anniversary of Brainerd Lakes Fiber Optic Partnership
- Over \$25 Million in Fiber Optic Infrastructure Invested
- 2014 – Fiber Partnership with Little Falls Community
- 2015 - \$2.4 Million Investment to Unserved Communities with State of MN Border to Border Broadband Grant of \$2M. Total Phase I Project: \$4.4M



- 290 Establishments Passed in Fort Ripley
- 190 Establishments Passed in Fairview Township

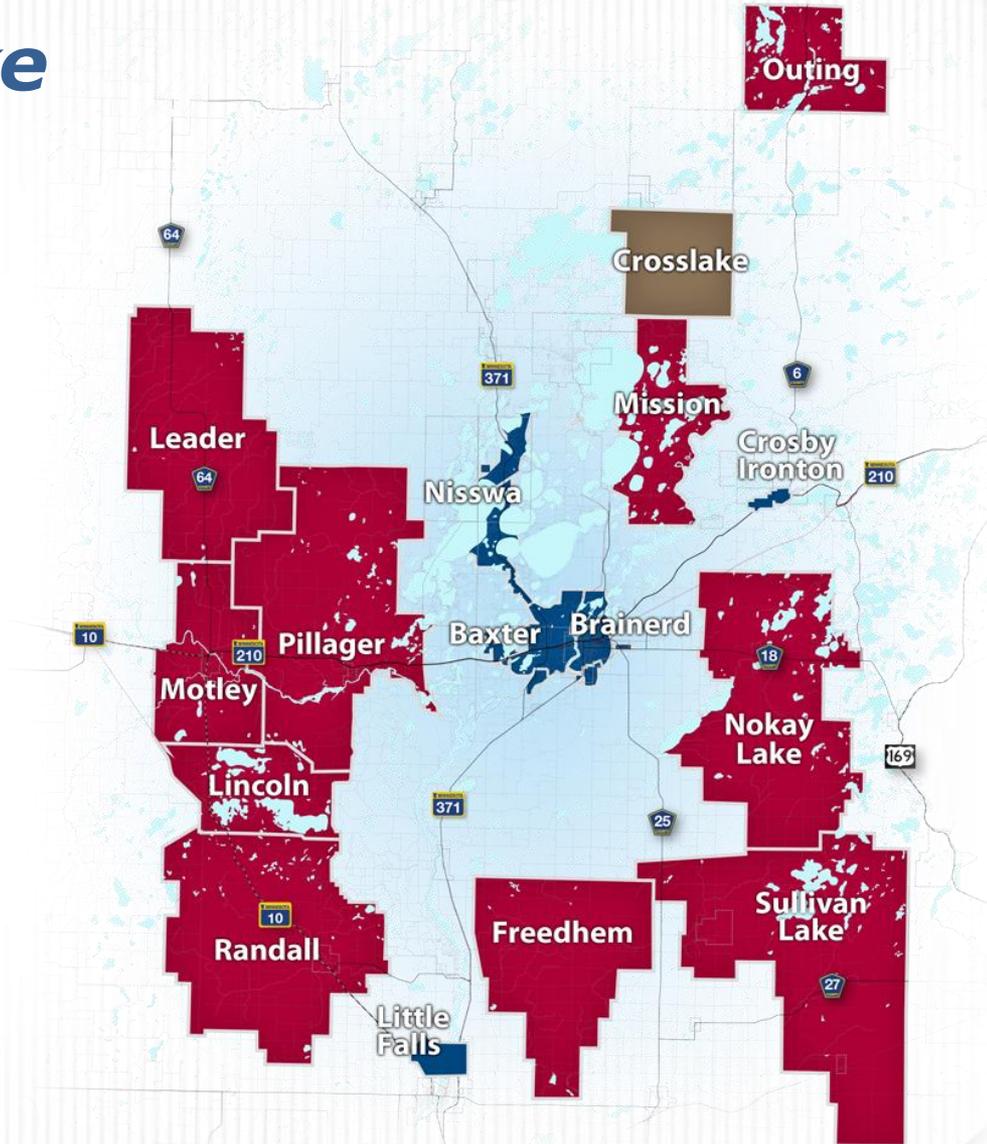
# ***Barriers in Building Broadband***

- Financial uncertainties with the FCC's lack of decision on USF.
- Standalone broadband funding.
- Cost associated with building FTTH in remote rural areas.
- RUS Broadband Loan Funds unavailable.
- Lack of knowledge by policy makers and consumers.

# Arrowhead Partnership



# Crosslake

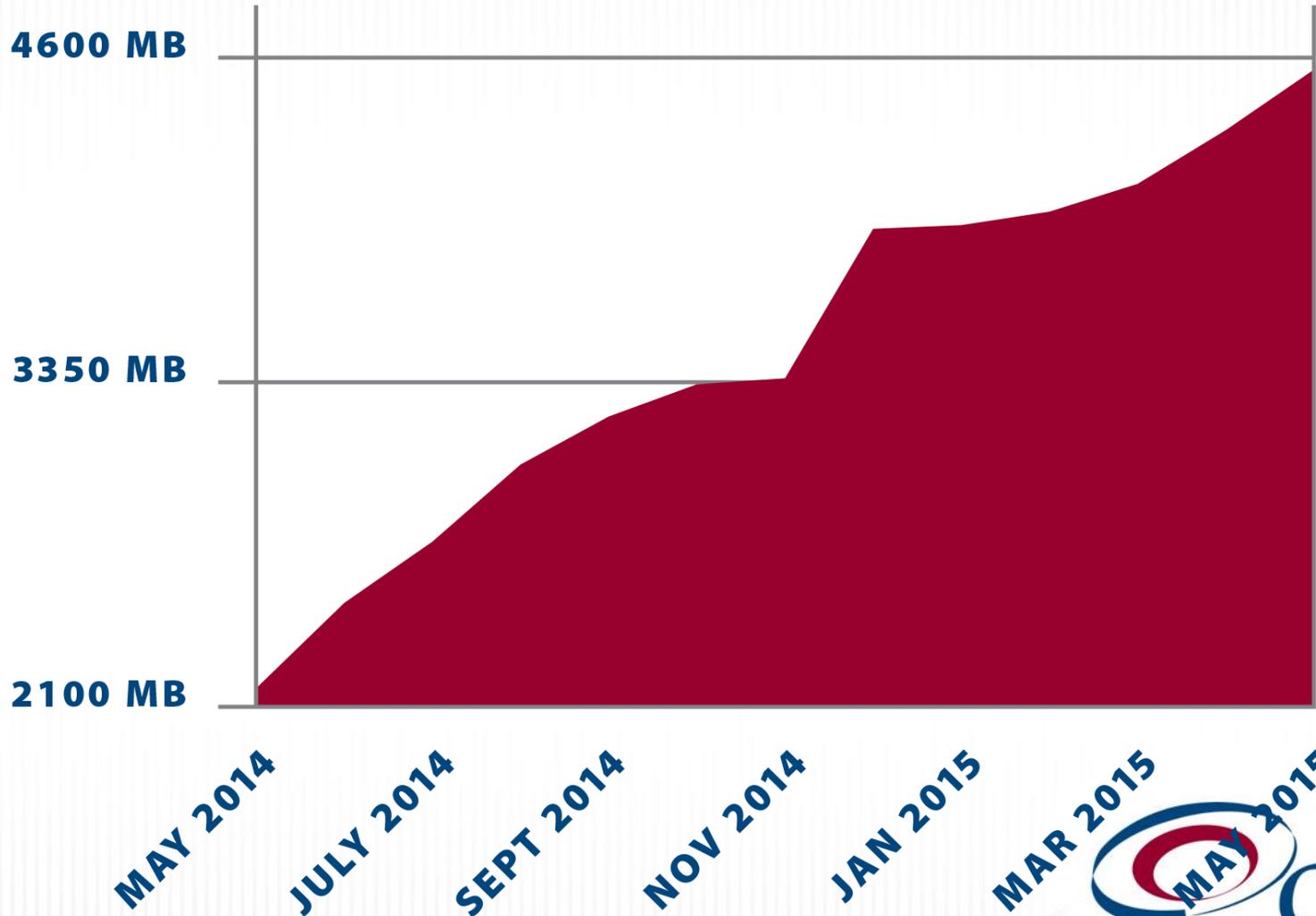


# *Where are we going?*

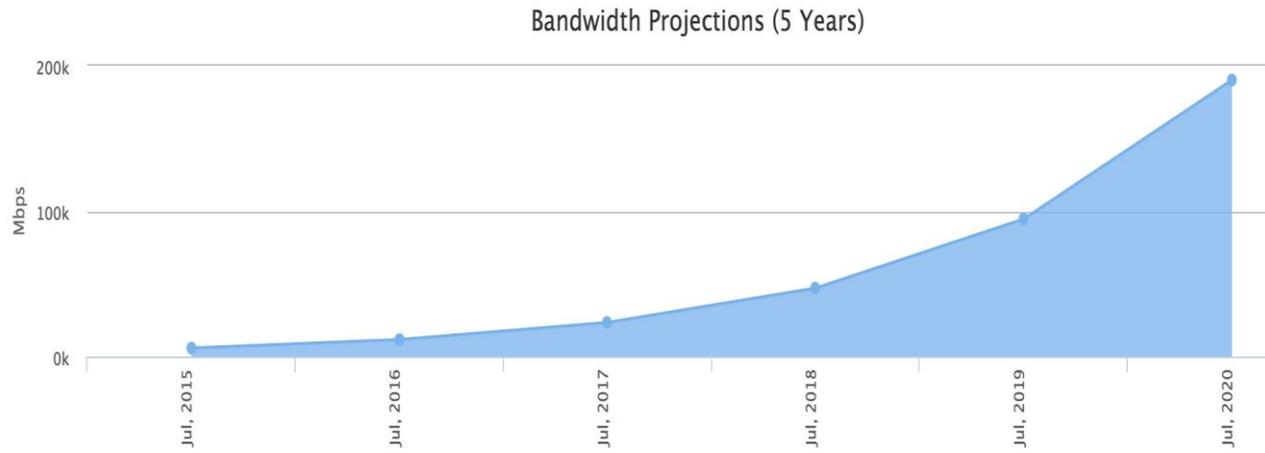


# Member Internet Usage

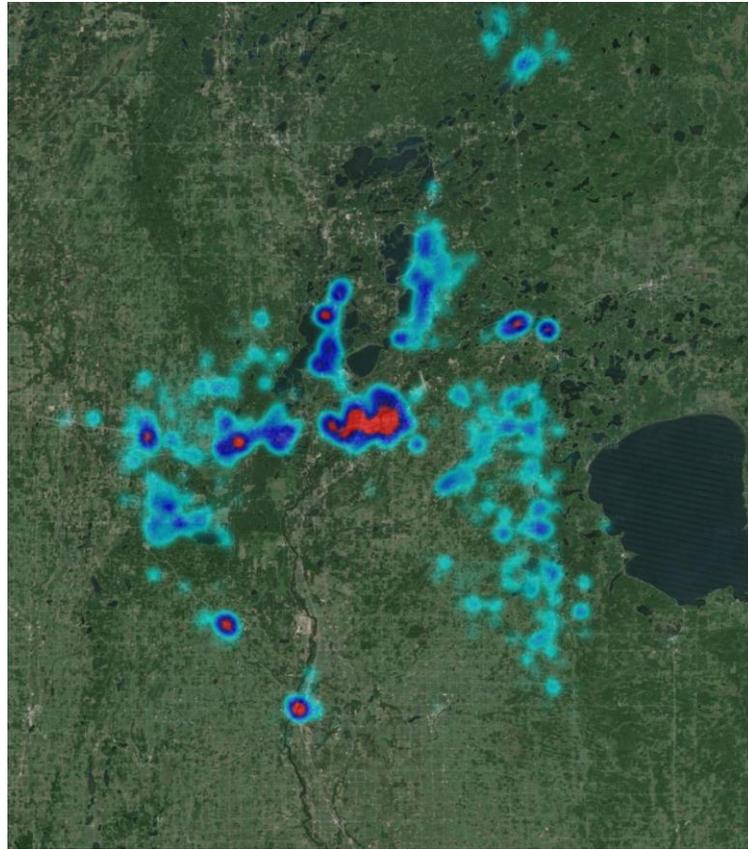
Average peak usage during a single day



# Future Projections

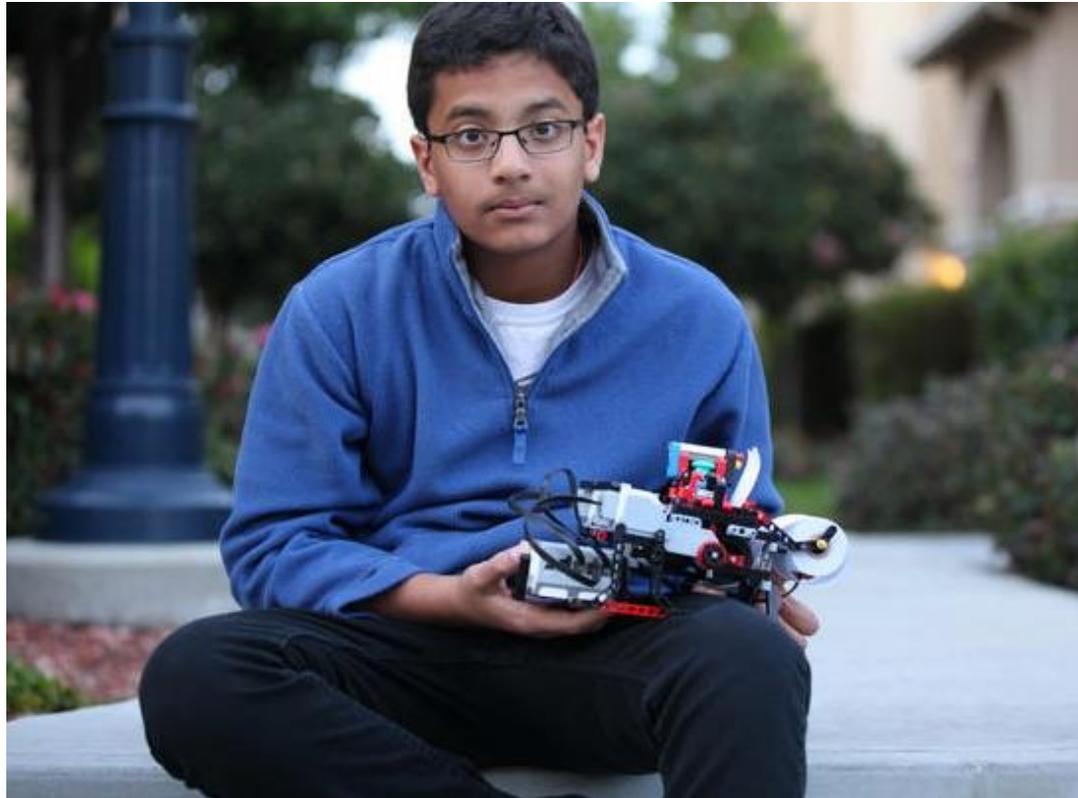


## CTC's Data Usage by Geography

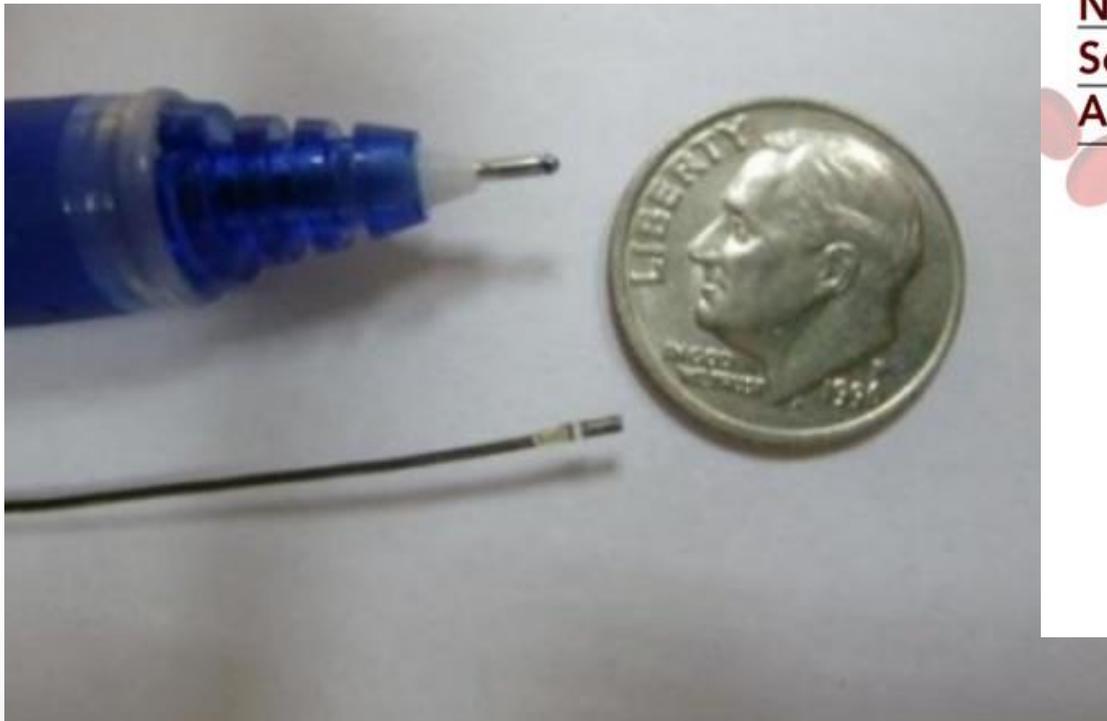




**#@yourfingertipsinnovation**

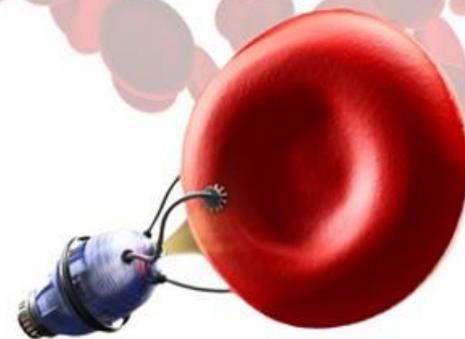


# Healthcare Devices



Nanobots | The New  
Soldiers in the War  
Against Cancer

By Jessica Ping



# *Streaming Video Analyzed*

<b>Time</b>	<b>Speed (Mbps)</b>	<b>Streams</b>
10:00 AM	16.4	1 UHD
11:00 AM	16.4	1 UHD
12:00 PM	16.4	1 UHD
1:00 PM	24	1 UHD + 1 HD
2:00 PM	32	1 UHD + 2 HD
3:00 PM	37	1 UHD + 2 HD +1 SD
4:00 PM	45	1 UHD + 3 HD + Youtube
5:00 PM	50	1 UHD + 3 HD + Youtube + Video Chat

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# *Closing and Questions*