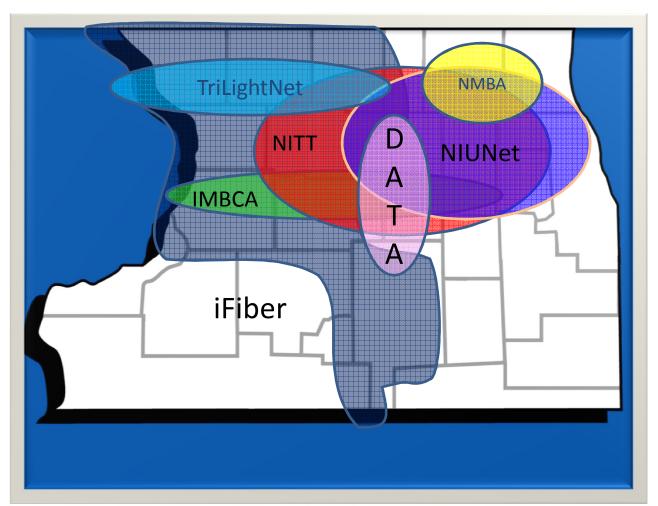
Updates on Networks Throughout Northern Illinois

Herb Kuryliw
Network and Technology Architect

... Connecting Illinois' Northern Region to the World ...



Review of Broadband Initiatives in Illinois



NIUNet - Northern Illinois University Research and Education Network.

IMBCA – Illinois Municipal Broadband Communications Association for Economic Development.

NITT – Northern Illinois Technology Triangle for Economic Development.

TriLightNet – A medical network for HIE development and healthcare.

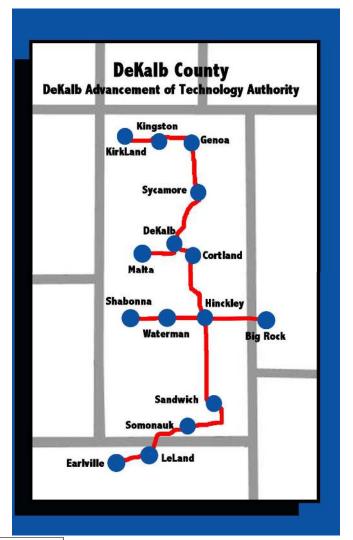
NMBA – Northwest Municipal Broadband Authority – A municipal and education network.

DATA – DeKalb Advancement of Technology Authority – A BTOP funded grant for DeKalb County.

iFiber – The Illinois Broadband Opportunities Partnership – A nine county BTOP funded grant awarded to Northern Illinois University.



DeKalb Advancement of Technology Authority (DATA) Update



- Miles of Conduit Buried: 131 (100%)
- Miles of Fiber: 143 (100%)
- Community Anchor Institutions Contracted and Connected: 78 (100%)
- Grant Closed 10/1/2013
- Grant came in under budget ~\$300K





Above and Beyond the Grant

- Connected 12 locations for 911
- Agreements for Co-Location within telco space in Sandwich, Hinckley, DeKalb and Genoa
- Signed up 3 ISP's that compete within the DATA space with more coming:
 - Illinois Century Network
 - Syndeo
 - NIUNet



Above and Beyond the Grant (Cont)

- Partnership with iFiber providing expanded network services.
- Purchased a 100 Gigabit network node for the DeKalb location to participate in a ring topology.

Created redundancy within the network.



One of many successes



- GK Schools was paying \$650/Month for a 10Mb connection (\$65/Mb)
- Currently paying \$850/Month for 100Mb (\$8.50/Mb)
- With connection fee of \$7000/Year total Mb cost is \$14.33/Mb
- They have installed a Mitel phone system through Frontier.
 - More phones more functionality.
 - Phones in every room can call emergency
 - Use the phones for intercom system
- Opened up all media streaming, no restrictions.
- Opportunity to network printers and copiers allowing for monitoring and savings.
- Wireless network has expanded now with a single controller centrally.
 Over 512 connections daily.
- In process of consolidating servers and storage.
- Backups are performed regionally now between buildings and all storage is replicated.





Private Sector Taking off





- 22 Connected bank sites.
- 9 Rural Agriculture Businesses and other businesses connected.
- 36 Local Businesses within cities connected to fiber.
- Gigabit over fiber now delivered to Paw Paw region in a new expansion of the DeKalb network.
- Engaged in working with municipals to deliver fiber to the home in cities and rural sub-divisions. Hidden Oaks Subdivision north of Sandwich.
- Triple Play setup for 1st Quarter 2014 with new vision and method of delivering content over broadband.



iFiber One Year Ago 2012

Permits & Construction



- Over 600 Miles of Designed Routes submitted (98% of network)
- Over 540 Miles of Permits received (86%)
- 480 Miles of Fiber Duct installed to date (76%)
- 365 Miles of 144-Count Fiber installed to date (58%)
- Approximately 115 CAIs have duct/fiber installed (22%)
- 528 CAI's have been contacted (99%)
- 419 CAI's have submitted letters of intent (79%)
- 170 CAI's have signed Service Agreements (32%)



iFiber Today 2013



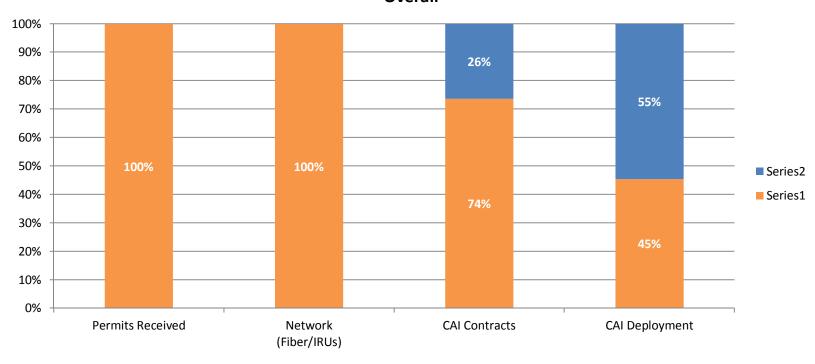
Permits & Construction

- **601** Miles of Designed Routes submitted (**100**% of network)
- Permits received (99.9%) (One left in LaSalle County)
- 600 Miles of Fiber Duct installed to date (99.9%)
- 597 Miles of 144-Count Fiber installed to date (99.5%)
- Almost All CAIs have duct installed (100%)
- 490 CAI's have been contacted (100%) (Some CAI's dropped out originally 533)
- 361 CAI's have signed Service Agreements (74%)
- Out of 295 connections 134 are lit (45%)



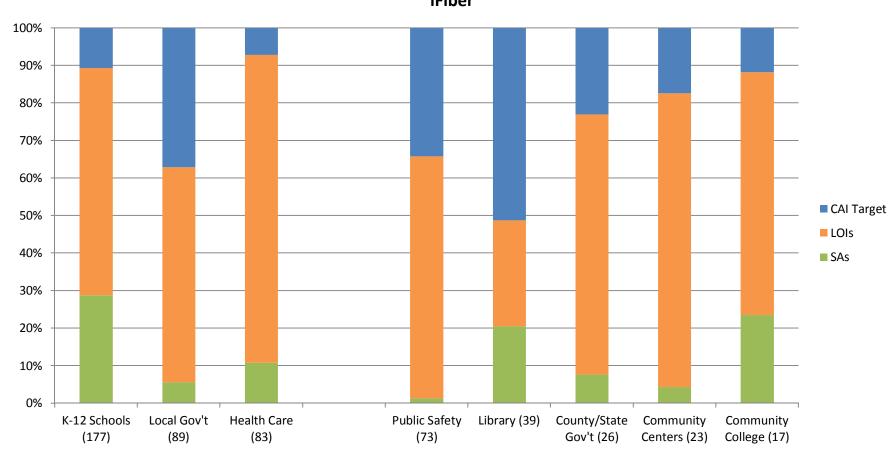
Charted iFiber Progress











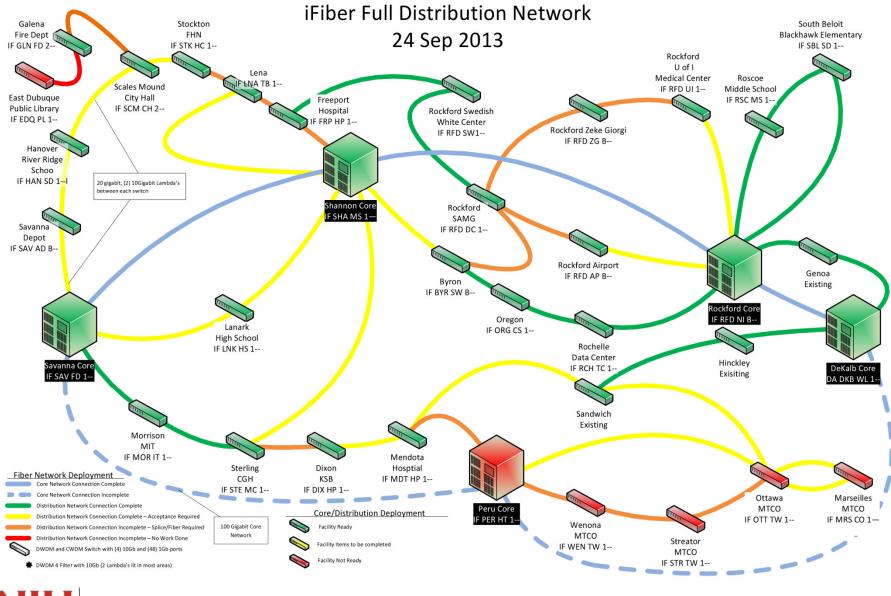


iFiber Update 2013 (Cont)

Schedule Moving Forward

- Grant was extended to December 31, 2013
- All construction will be completed end of October 2013
- All fiber placement and Splicing completed by November 15th
- Equipment installation resumes 3rd week in October with a goal to get all services lit before the 1st of the year.







ISP's Servicing CAI's over the iFiber Network

iFiber ISP Partners



Choose from these providers & services [as of 7/16/13]. Pricing varies based on individual service needs. Contact them:

ISP	Region served	Date service available	Internet Access	VolP	Cloud-based Services	Server Hosting	Security	IT Consulting
Aero Group Inc. Adam Schulz (815) 801-3388 (O) (815) 801-9951; or Todd Fransen (sales) (815) 757-1664 aschulz (glaeroinc.net www.aeroinc.net	All iFiber	By 7/1/13	,	1		*		*
CenturyLink Cameron Parker (312) 498-0390 cameron parker@centurylink.com www.centurylink.com	All iFiber	By 9/1/13	,	,	*	*	,	
Frontier Communications Thomas Kuschman (815) 895-1445 Thomas Kuschman@fr.com www.frontier.com	All iFiber	By 9/1/13	,		,		,	
Heartland Cable Steve Allen (309)432 2075 (a),(309)275 2018 (a) steallen@suminet.net www.hcable.net	LaSalle, Lee counties	By 9/1/13	,	,			•	,
HJ. Cable, LLC Fred Hartenbower (815) 368-3341 mfh@hihartnet	LaSalle, surrounding counties	By 7/1/13	~	,		•		,



ISP's Servicing CAI's over the iFiber Network

131 3 3CI VICILIE CI (I 3 OVCI				THE HIDELINCTIVE					
ISP	Region served	Date service available	Internet Access	VolP	Cloud-based Services	Server Hosting	Security	IT Consulting	
IL Century Network (ICN) www.illinois.net	All iFiber	By 7/1/13	1						
ISI Communications Dan Howard (630)887-2910(a);(630)878-1325(c) dhoward@isicommunications.com www.isicommunications.com	All iFiber	By 9MM3		1		1		1	
Jo-Carroll Energy/Sand Prairie Jeff Harrelson (815) 858-2207 ext. 1336 jharrelson@jocarroll.com www.connectsp.com	All iFiber	By 9/1/13				•		•	
MTCO Tina Glidewell, Sales Mgr. tglidewell@copr.mtco.com (309)367-4197(o);(309) 253-8009(c) www.mtco.com	All iFiber	By 9/1/13		*	•			-	
NIU Net Kevin Finley (815)753-7272 kfinley@niu.edu www.niunet.niu.edu	All iFiber	By 7/1/13	1						
Syndeo US Toll Free: (855) 479-6336 Local Phone: (630) 457-4218 sales@syndeonetwork.com www.syndeonetwork.com	All iFiber	By 7/1/13	1	•	•	•	1	•	
Urban Communications Inc. Edmund G. Urban III 1-855-243-4237 sales@urbancom.net www.urbancom.net	All iFiber	By 9/1/13	1	1	1	•	1	1	



Support Moving Forward

- Northern Illinois University will be supporting the network moving forward with the Northern Illinois Monitoring Center (NIMC)
- http://nimc.niu.edu



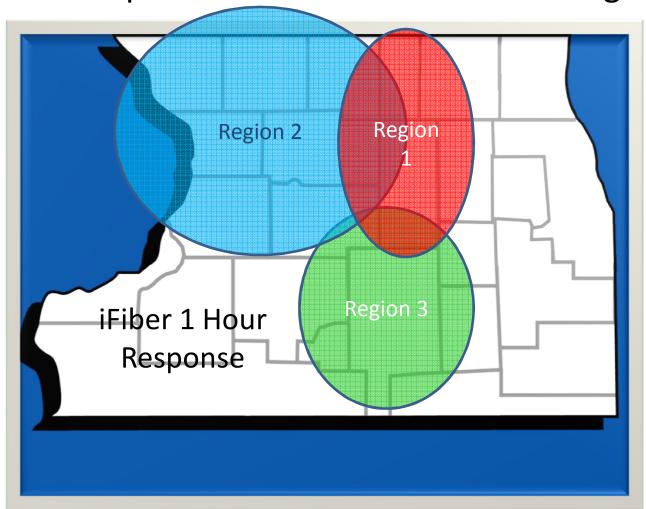


NIU Response Time for NOC Services

- NIU Will partner with local ISP providers in the region to have a 1 hour onsite response time.
- iFiber will have spares parts locally in the event of equipment failure with a full vendor equipment replacement on-site within 4 hours if needed.
- Fiber cuts when identified will have onsite review and repair process within 1 hour through G4S.
- Fiber system will be reviewed twice a year for repairs or weather wear on system.



Partnering with local service providers for better response time and trouble shooting





Thank you!

