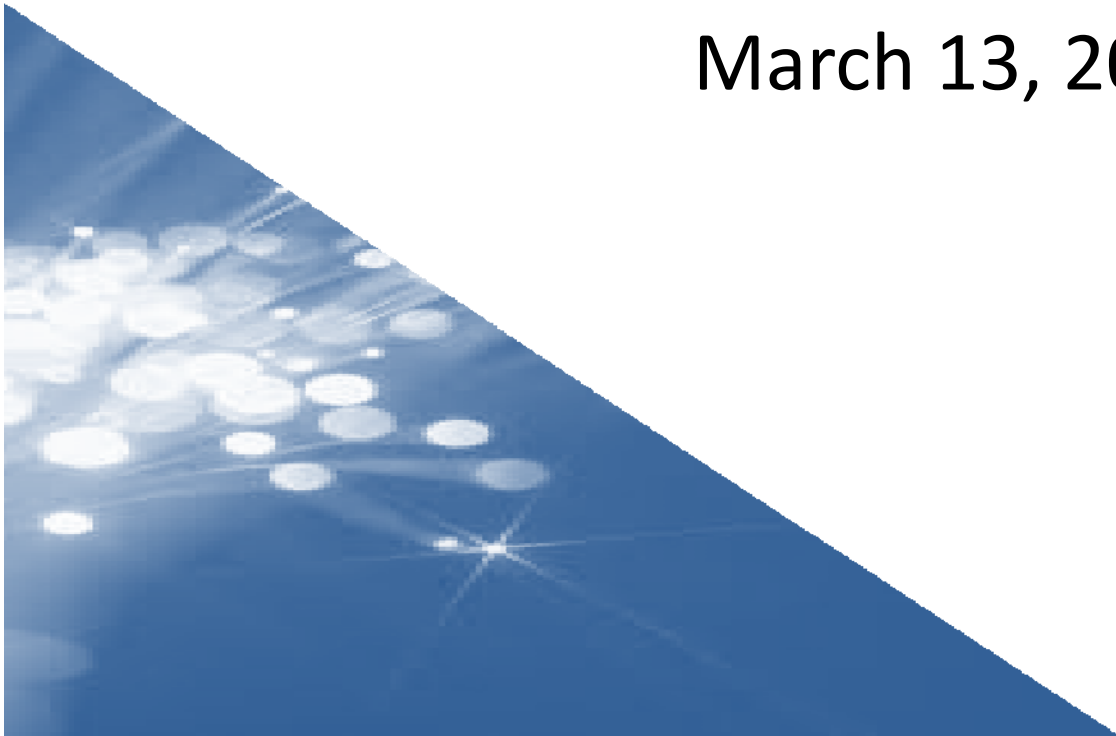




Digital Technology Committee

March 13, 2014





Metropolitan Unified Fiber Optic Network (MUFN)

American Recovery Reinvestment Act (ARRA)

Broadband Technology Opportunities Program (BTOP)

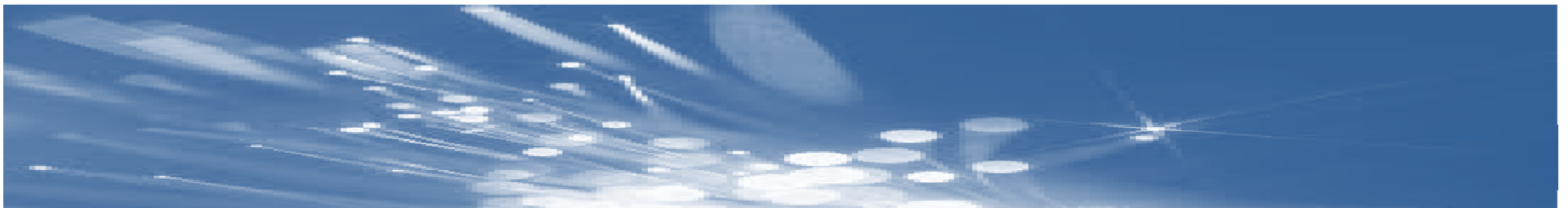
- \$5.1 million grant awarded
- \$3.25 million in-kind contribution in fiber/conduit from the City of Madison
- \$500,000 cash contribution from MUFN members





The approximately \$9 million in funds and in-kind contributions was used for the following

- 35 miles of new high count backbone fiber (144-strand)
- 35 miles of new conduit
- 23 miles of fiber/conduit for laterals to member institutions (24-strand)
- \$1.5 million in active/passive optic systems





MUFN

METROPOLITAN UNIFIED FIBER NETWORK

BRINGING HIGHER-SPEED INTERNET TO METRO MADISON

Member organizations are anchor institutions, schools, higher education, libraries, government, and public safety.

UW-Madison (DoIT)

City of Madison

Dane County

Madison College

UW-Health Medical Foundation

State Lab of Hygiene

University Research Park

UW-Madison Medical School

South Central Library System

Madison Metropolitan School District

City of Middleton

Middleton Cross Plains Area

School District

Monona Grove School District

UW-Extension

DaneNet

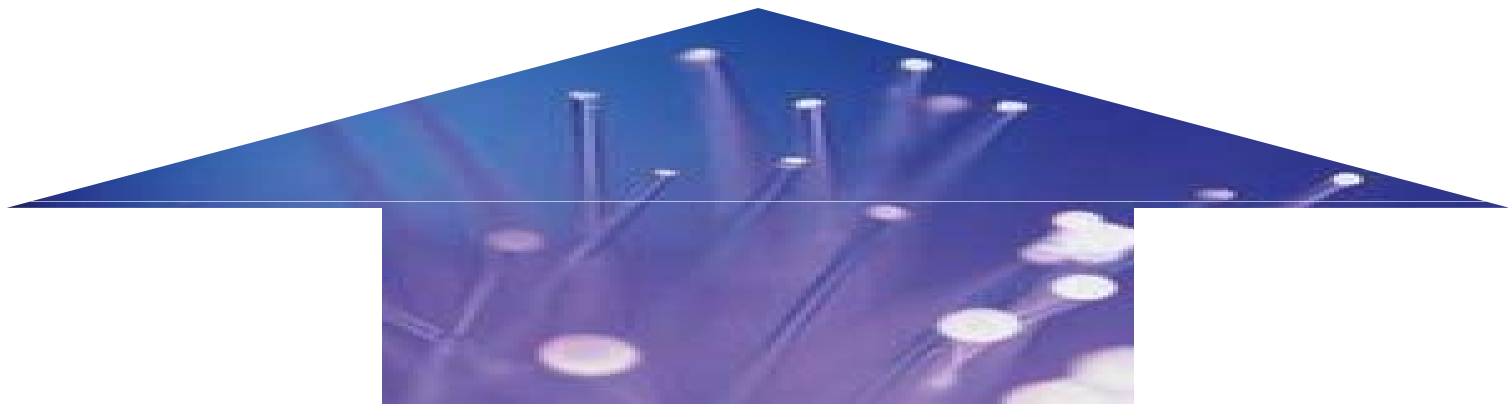
Meriter Hospital

UW-Health Hospitals and Clinics



Commercial Partners

- WINmetro, LLC
- SupraNet Communication, Inc.

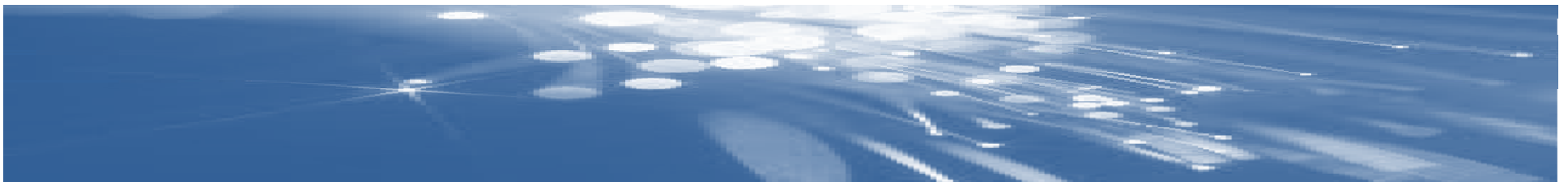




Facilities Use and Licensing Agreement

City of Madison requires an agreement with commercial members to include:

- 5% of gross income for fiber using city-owned conduit
- City gets 12 strands (one buffer tube) of fiber at no cost wherever commercial partners build
- Option to purchase up to an additional 50% of fiber at the cost to build
- Option to own any conduit installed in the city right-of-way





WINmetro, LLC

- Fiber optic connections to 22 MMSD schools at no cost
- Fiber or high-speed point-to-point connections to 5 remaining MMSD schools
- 14 high-speed connections to community centers and free 50-100 Mbps broadband service.

Boys and Girls Club – Taft
Boys and Girls Club – Allied
Vera Court
WilMar
Wisconsin Youth Company
Neighborhood House
Hoyt Community Center

Goodman
East Madison
Lussier
Bridger Lake Point
Kennedy Heights
Meadowood

4 additional Community center locations to be identified later

- Pilot fiber-to-the-home project(s)



SupraNet Communications Inc.

- Fiber Optic connections to 6 city-owned water towers and Larkin Radio Tower

Tower 126 – High Pont Rd.

Tower 315 – Cross Hill Dr.

Tower 225 - Milwaukee St.

Tower 009-Spaanem Ave

Tower 120-Prairie Rd

Tower 113-Lakeview Ave

- Up to three 50 Mbps point-to-point wireless connection, per site at no cost to the city

- Fiber optic connections to 6 branch libraries.

Meadowbridge

Pinney

Sequoia

Lakeview

Alicia Ashman

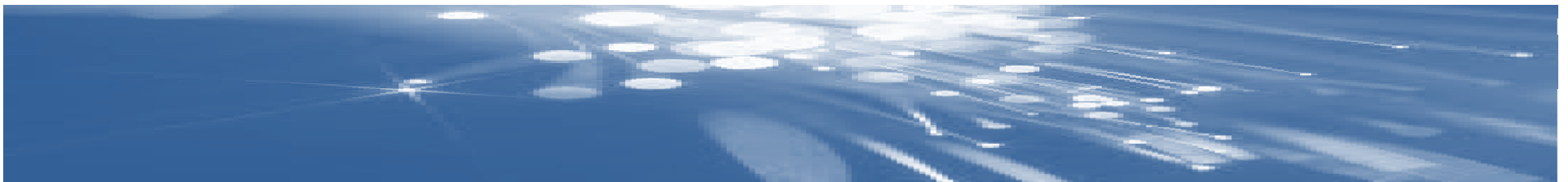
Monroe Street



City of Madison Sub-Recipient Agreement

In order to ensure the sustainability of the fiber network the City of Madison became a sub-recipient of all of the fiber/conduit assets within the City of Madison limits.

- 20-year agreement
- City provides these services
 - Locate services – Diggers Hotline
 - Major relocates for road construction projects
 - Break-fix services





Metropolitan Unified Fiber Network Consortium,
Unincorporated Association
MUFN-C, UA

The remainder of the grant funded assets are owned by MUFN-C through a similar sub-recipient agreement.

Non-profit 501(c)(4) association under Chapter 184 of the Wisconsin Statutes.



MUFN-C, UA

Oversight Committee

- Three permanent members
 - City of Madison
 - Madison Metropolitan School District
 - UW-Madison
- Two rotating members
- Two-year terms
- City member is the current Chair



MUFN
METROPOLITAN UNIFIED FIBER NETWORK
BRINGING HIGHER-SPEED INTERNET TO METRO MADISON

MUFN-C, UA

Operations Sub-Committee

Network Operations – WIN

Internet Services – SupraNet

Engineering Services – UW-Madison

Fiscal Services – City of Madison Finance Dept.

Members pay \$350/month per pair