

Protecting the City of Madison and Metropolitan Unified Fiber Network (MUFN) Fiber Infrastructure

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MADISON CIO AND IT DIRECTOR

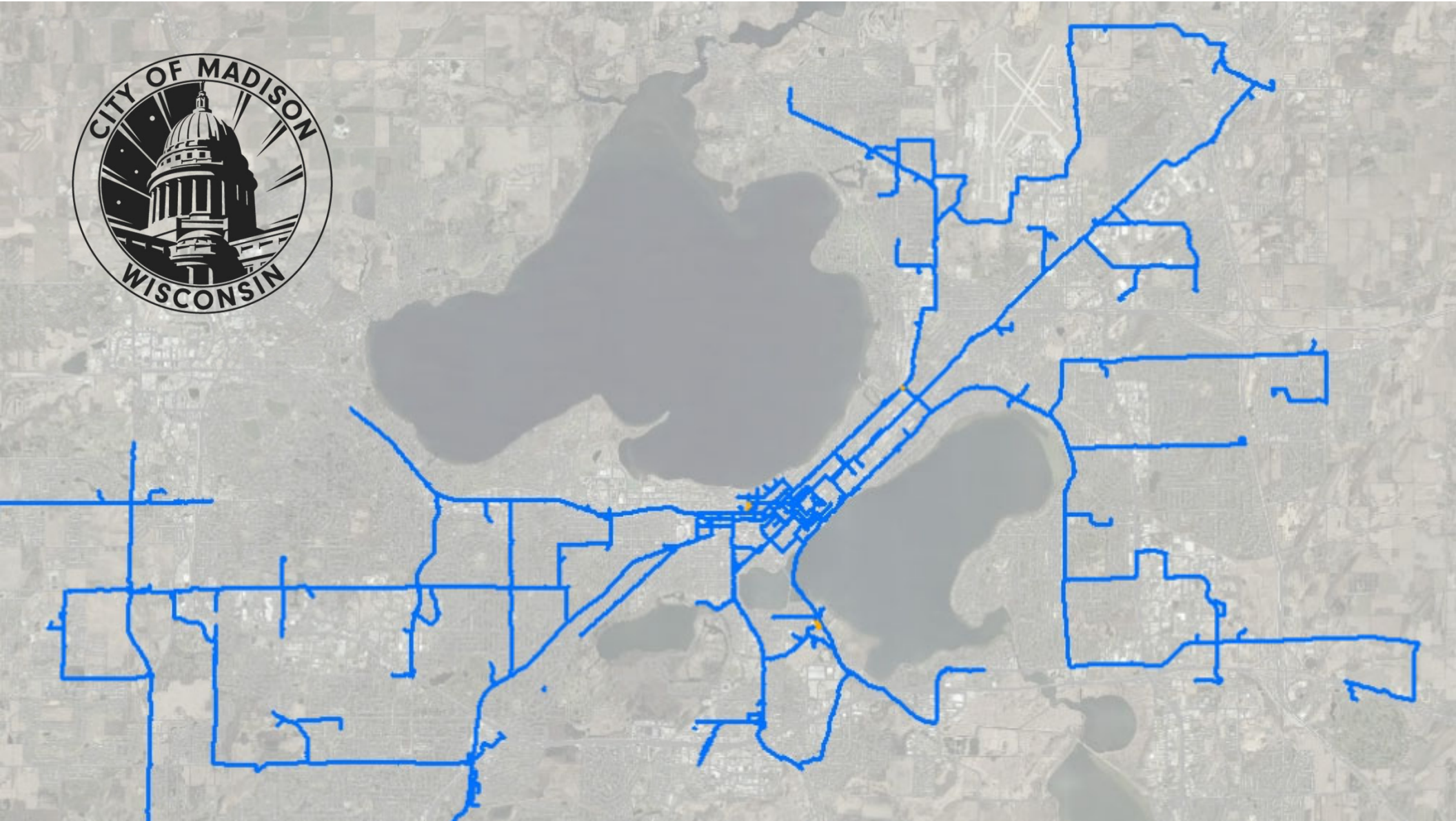
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The City of Madison Fiber Network



The City of Madison Fiber Network is foundational infrastructure for all City departments and facilities. We rely on the City's fiber network to support critical systems, communications and applications.





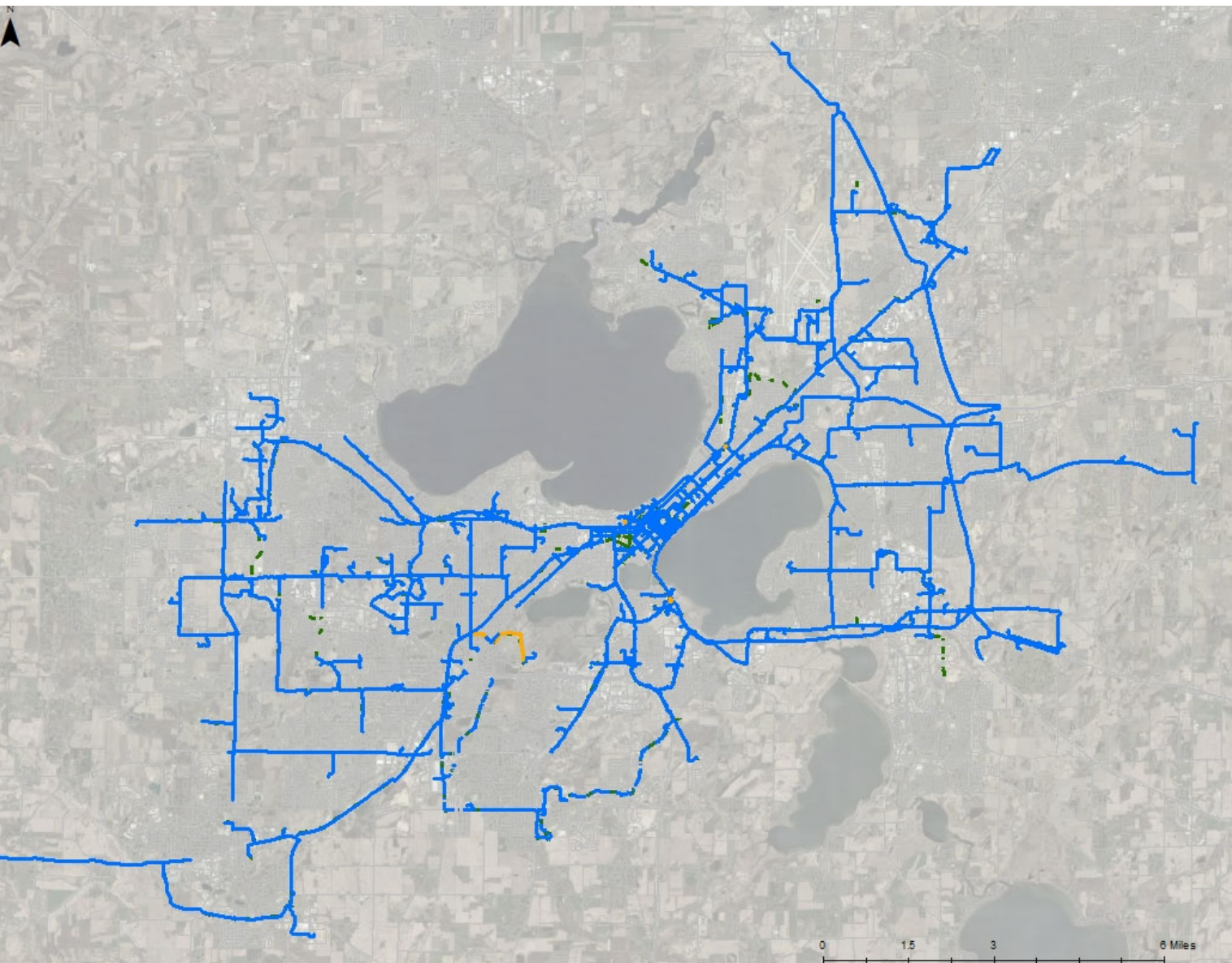
What do we connect?

- 5 Police Stations
- Police Training Center
- 14 Fire Stations
- 30 Water Utility Booster Stations, Towers & Wells
- City Hall
- 108 City Facility locations
- 9 Madison Public Libraries
- Goodman Pool
- Traffic Signals
- City Digital Security Cameras
- Traffic Engineering Cameras
- Public Health Clinics
- Monona Terrace
- Olbrich Gardens

What is the Metropolitan Unified Fiber Network (MUFN)?



MUFN provides middle-mile fiber connectivity. It is a local collaborative fiber-optic network serving Dane County area anchor institutions, such as education, health, utilities, government (including public safety), libraries, and non-profits.



MUFN provides middle-mile infrastructure which unifies and increases existing telecom resources to facilitate enhanced Internet, point-to-point connectivity, and application sharing throughout Dane County and beyond.

MUFN
METROPOLITAN UNIFIED FIBER NETWORK

Hospitals

- UnityPoint-Meriter (Hospital)
- UW-Hospital and Clinics
- American Family Children's Hospital
- UW Health East Madison Hospital
- UW-Madison School of Medicine and Public Health
- UW Medical Foundation





K12 Schools & Libraries

- Madison Metropolitan School District (25,000 students)
- Middleton-Cross Plains School District (7,300 students)
- Monona-Cottage Grove School District (3,600 students)
- Oregon School District (4,000 students)
- South Central Library System (The South Central Library System (SCLS) is a consortium of 53 public libraries in 7 Wisconsin counties: Adams, Columbia, Dane, Green, Portage, Sauk, and Wood.)

Higher Ed

- UW-Madison
(48,000 students)
- Madison College
(17,000 students)
- UW-Madison School of
Medicine and Public Health



Local Government

County

- Dane County (575,347)

Local

- City of Madison (282,000)
- City of Middleton (23,000)
- City of Monona (8,500)





State Government

- State of WI Department of Public Instruction
- State of WI Department of Public Instruction
State Lab of Hygiene
- State of WI Investment Board (SWIB)
- Wisconsin Economic Development
Corporation (WEDC)
- UW-Extension WI Geological and Natural
History Survey

Federal Government

- Wisconsin Army National Guard (WIARNG)





Non-Profit & ISPs

Non-Profit

- DaneNet

Network Service Providers

- SupraNet
- WIN Technology
- WiscNet

Impact

- Loss of connectivity to vital services across the MUFN eco system.
- Loss of connectivity to local public safety agencies.
- Loss of communications to 911 and emergency radio services.
- Loss of connectivity to traffic signals, security cameras and traffic cameras.
- Loss of connectivity to UW Health & Meriter Hospitals and Clinics.





Prevention

DURING CONSTRUCTION

- Locate markings – if they are not visible, call-in to get new locates.
- Communication – reaching out to City Inspectors when you are not sure of the locate markings.
- Reporting – if you hit, hook, crush or bore through the conduit and/or fiber, reach out immediately. It is far easier for us to address, as soon as we know.

Moving Forward

EXAMING OPTIONS FOR LIQUIDATED DAMAGES

- Cost Recovery & Liquidated Damages for fiber impacts – both the penalties and recovery of City costs to respond to and repair damaged fiber.
- Public Safety & Convenience – impacts to Public Safety operations.

Thank you.

QUESTIONS? CONTACT SARAH EDGERTON,
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