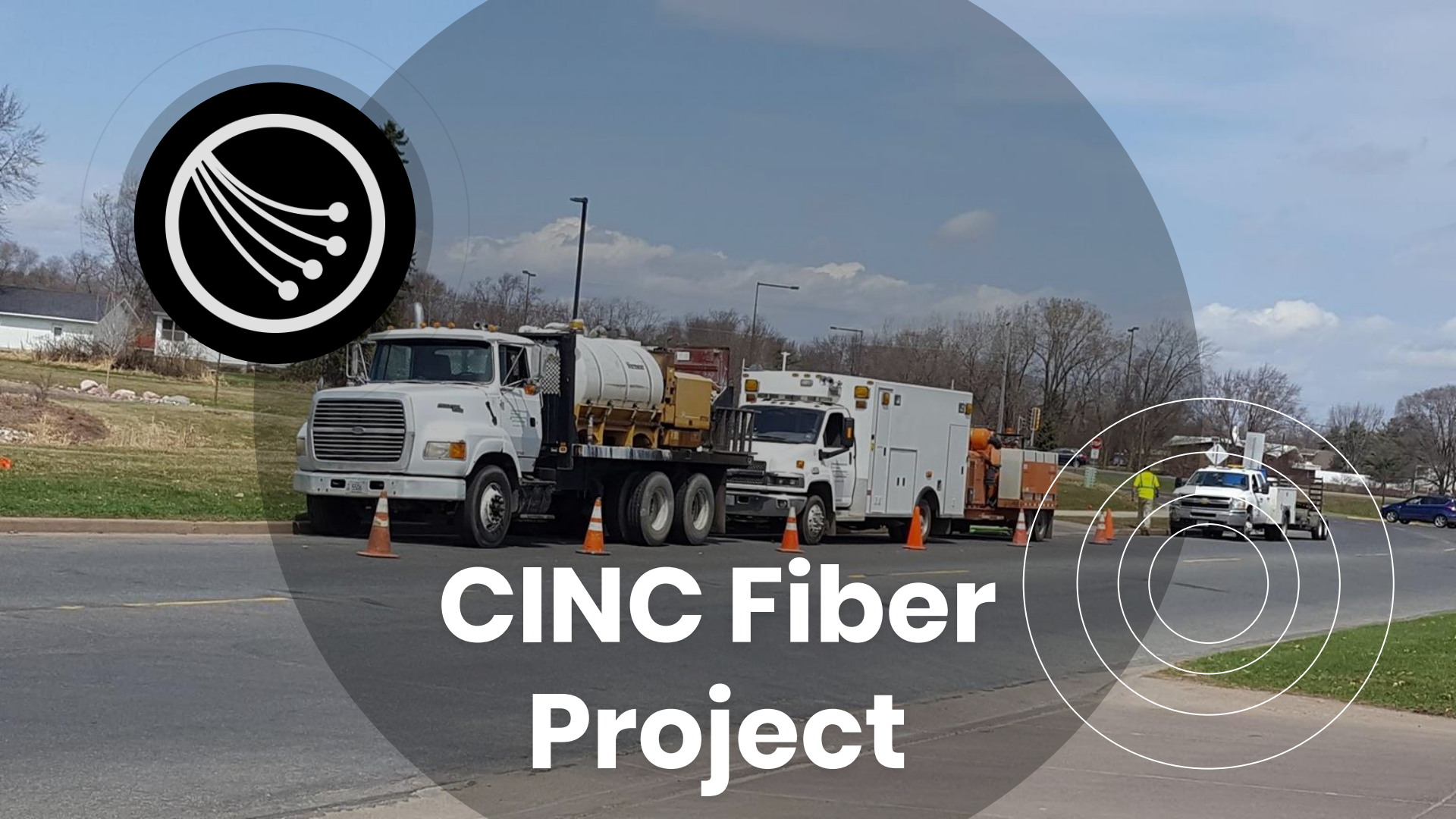




# CINC Fiber Project





1

# Background

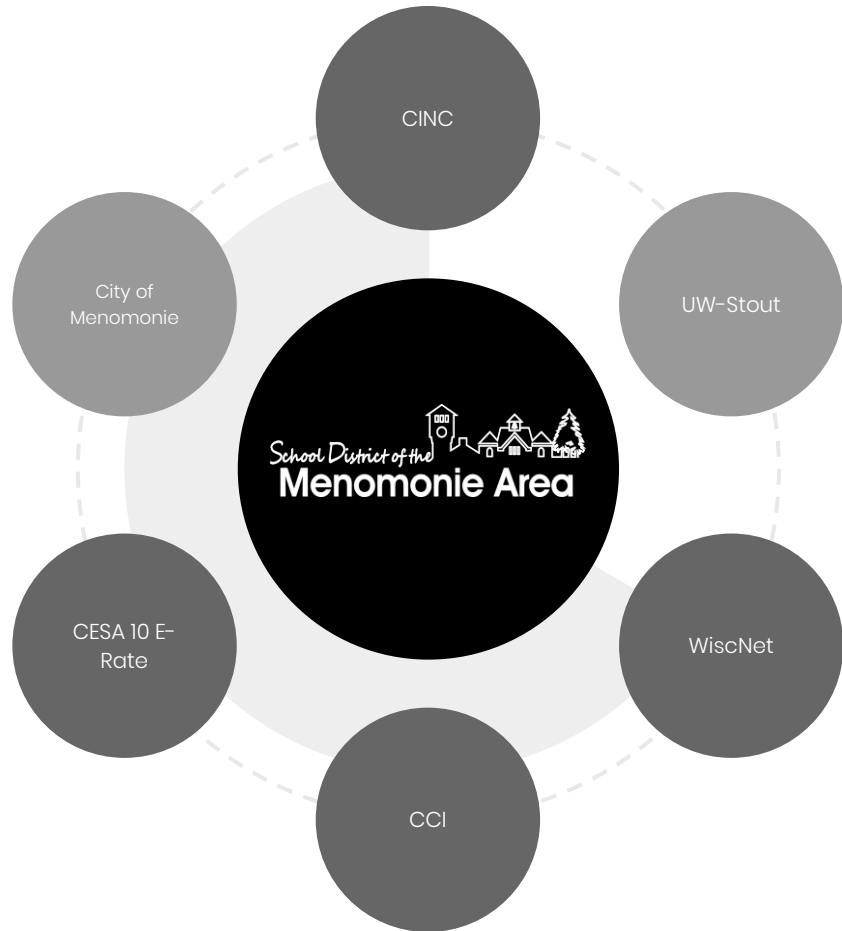
# CINC

The Chippewa Valley Internetworking Consortium (CINC) is a regional Community Area Network (CAN) formed in 1999 that is committed to “Broadband Serving the Public Interest.” CINC became an Unincorporated Association in 2011 and coordinates regional communication infrastructure projects with city, county and state government, educational institutions, libraries, hospitals, health care, nonprofits, and technology providers to facilitate network creation that is innovative, competitive, and sustainable. Through a coordinated regional communication infrastructure, CINC helps the Chippewa Valley be innovative, competitive, and economically viable for present and future generations.

<https://cincua.org/>



# Collaboration is key



# Costs

## Construction & Equipment Costs:

- Estimated \$214,360.14 for construction and materials (\$64,308.04)
- \$75,537 for networking equipment (\$12,982.50)

## E-rate & TEACH Grant Funding:

- E-rate funded 70% of eligible equipment & construction
- TEACH grant will reimburse 30% of planned E-rate eligible equipment purchased 2017-2018 through 2019-2020

## Monthly Service:

- \$6,300 is current monthly cost for Charter Services for impacted buildings before e-rate discount
- \$2,597.76 will be the monthly cost for lighting & maintenance fees before e-rate discount
- New opportunities to share resources with CINC partners

\*(district portion of total cost)



# Return on Investment

## Initial District Investment:

- Estimated total district investment: **\$77,290.54**

## Return on Investment:

- Actual annual district savings of **\$12,278.08** for internet service after e-rate funding
- Approximately 6 years for district to recoup initial investment for equipment & construction *at current IGB speed*

## Additional Benefits:

- New opportunities to share resources with CINC partners





**2**

# **Planning & Construction**

# Timeline

1

**2014 – Joined CINC**

First joined the Chippewa Valley  
Internetworking Consortium

2

**2016 – E-Rate Funding**

In 2016 we began working with CESA 10  
E-rate consultants to complete our  
application for self-provisioned fiber  
construction and equipment.

3

**2017 – Concept Maps**

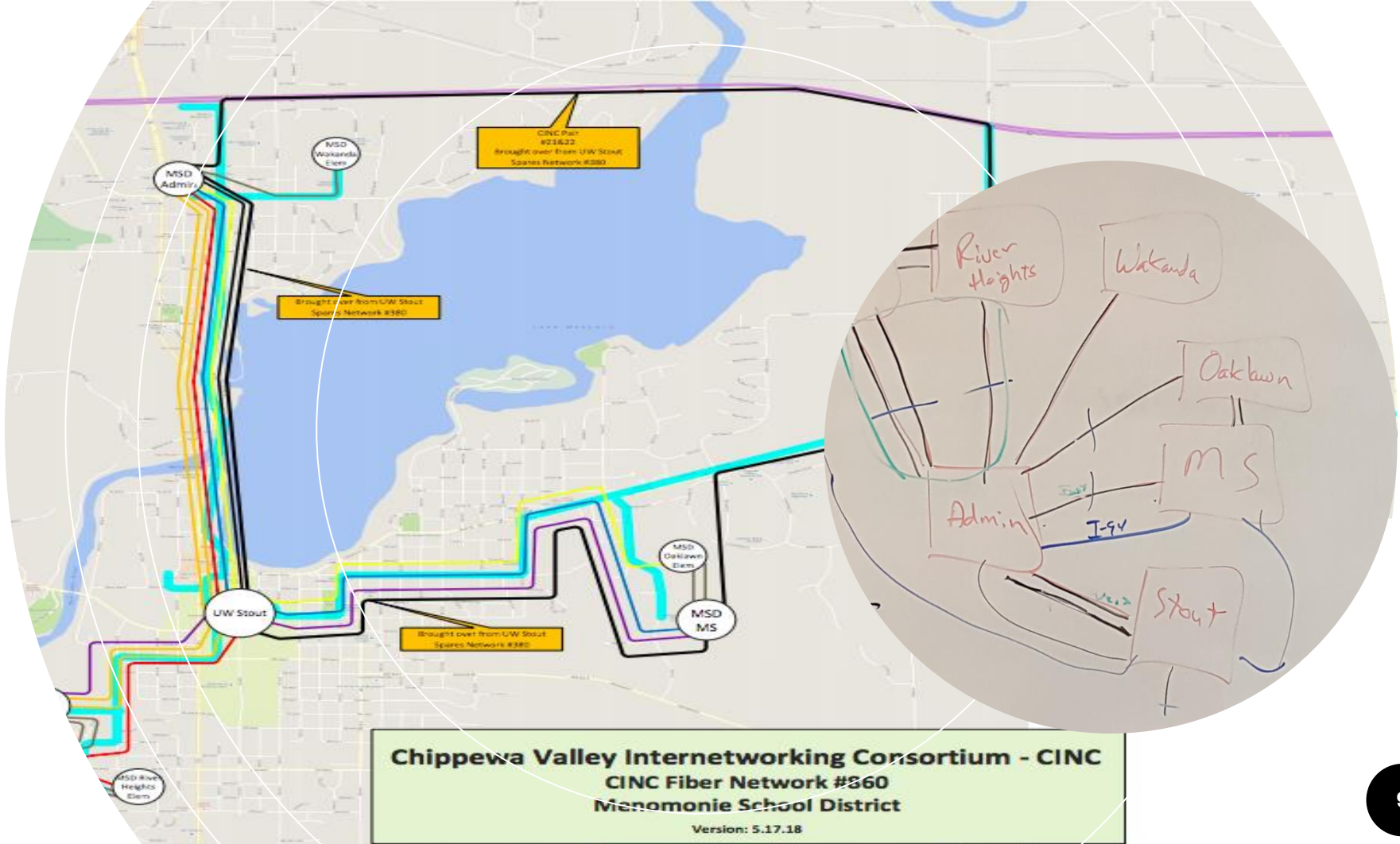
In February we met with engineers from  
CCI and CINC to start creating detailed  
concept maps. These were completed  
in many drafts and formats for various  
uses including future maintenance.

4

**2018 – Construction**

Fiber construction began in May 2018  
and was completed at the end of June.





**Chippewa Valley Internetworking Consortium - CINC**  
**CINC Fiber Network #360**  
**Menomonie School District**  
 Version: 5.17.18



Boring the route across from Oaklawn



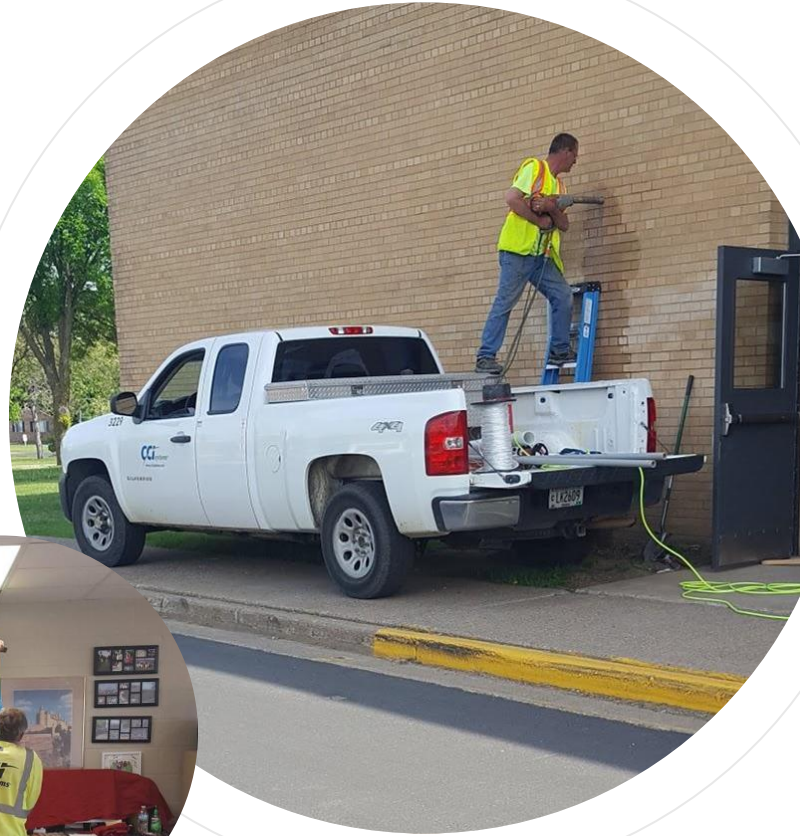
# Installing Conduit

Conduit is run along the route and buried. Fiber is then pulled through the conduit.



# Fiber is pulled into the buildings

A small hole is drilled to bring fiber cables into the building where it is routed through the ceiling into a network closet.







# Fiber Splicing



3

# Future Goals

# Future Goals

- Move to 10GB connection
- Partner with another CINC member to exchange off-site backup





# Questions

You can contact Katie Krueger

[katherine\\_krueger@msd.k12.wi.us](mailto:katherine_krueger@msd.k12.wi.us)