

MiSEN 12c-Consolidation Grant 2024-25 Annual Report



www.misen.org

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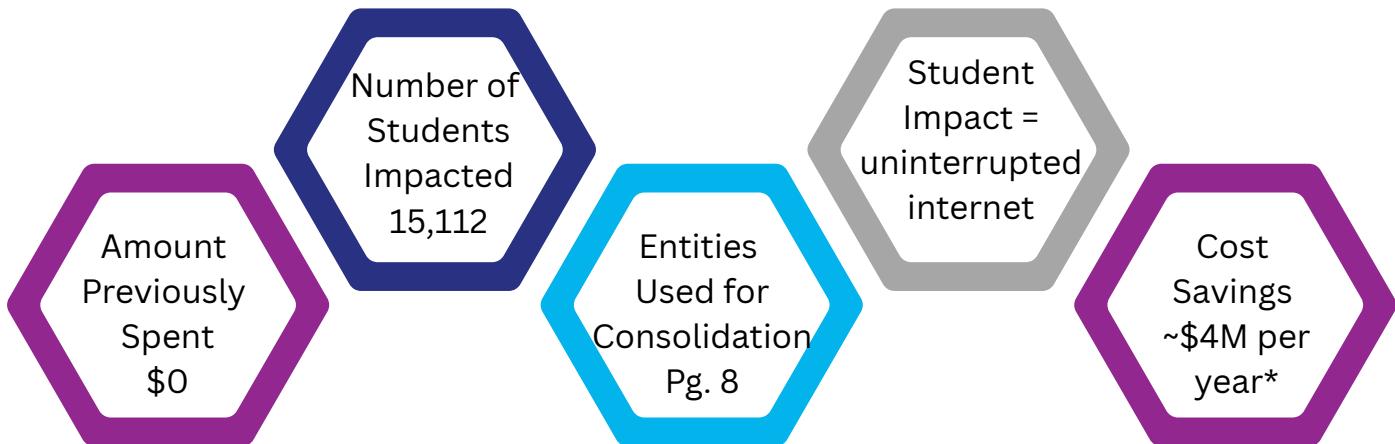
MiSEN
Michigan Statewide Educational Network

Executive Summary

Pursuant to Michigan Compiled Law (MCL) 388.1612c - **Consolidation and infrastructure fund**; grants for consolidation of services identified in a feasibility study under MCL 388.1611x; **infrastructure emergencies**, section 5 states, “*a report must be submitted to the Michigan Department of Education by not later than June 30, 2025 and include the following:*

- *The amount previously spent on each consolidation of service in the prior fiscal year.*
- *The number of students impacted by the consolidation or consolidation of services.*
- *The vendors, third-party entities, or other educational entities used for consolidation or consolidation of services.*
- *The impact on student learning attributable to money reallocated as a result of the consolidation or consolidation service or services.*
- *A total cost savings produced as a result of the consolidation or the consolidation of services.”*

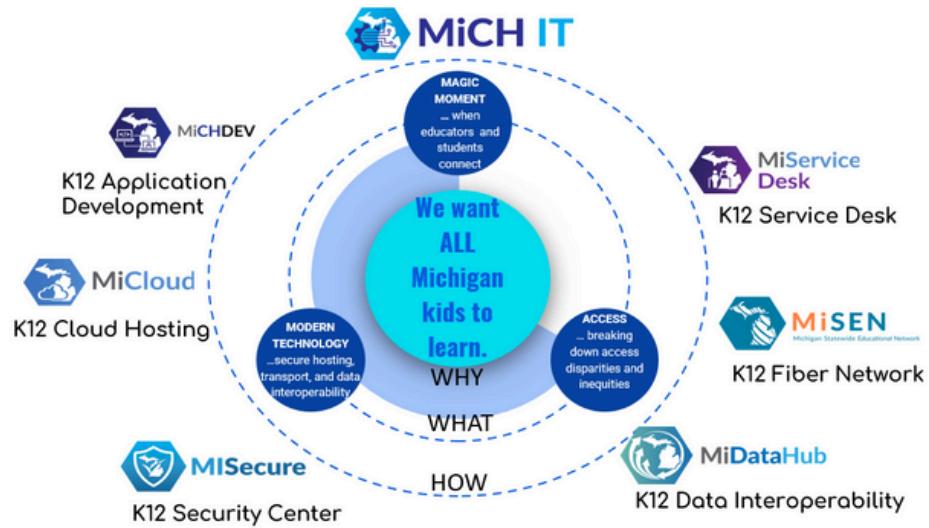
This executive summary provides the highlight of each of these components. The full report provides additional detail and context describing the services, supports, and impact of the consolidation. This annual program and financial expenditure reports align the work of the consolidation grants to the anticipated findings from the 11x feasibility study. In order for the cost savings and return on investment to be fully realized, full implementation is necessary over the course of the next two years and beyond.



*=see page 10 for details and additional savings

Introduction

The Michigan Statewide Educational Network (MiSEN), as a service area of the MiCH IT system, supports the core purpose of ensuring all Michigan children learn. This is achieved by fostering "Magic Moments" where educators and students connect, utilizing modern technology for secure hosting, transport, and data interoperability, and improving access to high quality educational experiences by addressing disparities and inequities.



WHY?

MiSEN's mission is "to connect 100% of Michigan Intermediate School Districts (ISDs), Local Education Agencies (LEAs), and Public-School Academies (PSAs) with the networking capacity needed to deliver modern digital learning content to the classroom". Ensuring all students' ability to access educational resources, engage in interactive learning experiences, and develop the vital digital literacy skills needed to succeed in an increasingly interconnected world.

HOW?

MiSEN's support structures are managed in partnership with the ISDs to connect all Schools. MiSEN was established out of the Technology Readiness Infrastructure Grant (TRIG) funding provided to consortiums in service to schools. Due to the wise investments of these dollars and the strategy to leverage E-Rate funding, MiSEN has been able to sustain operations for nearly a decade. MiSEN is uniquely qualified to succeed due to the partnerships and connections established by its managing board, advisory, and staff.

The current MiSEN Service Model includes:

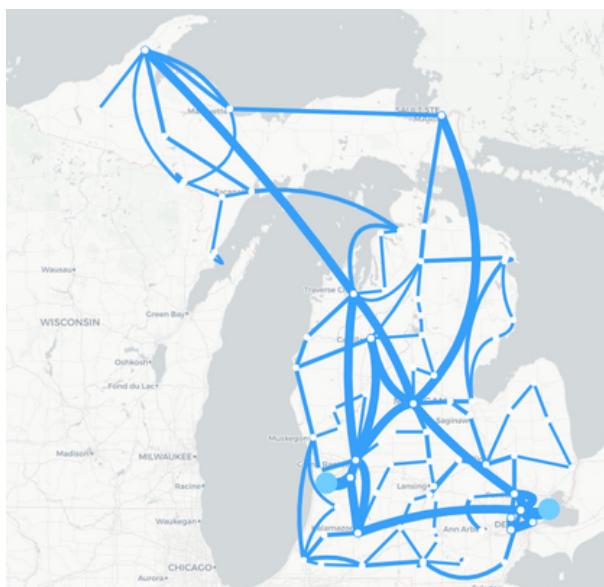
- Administration of the Network (staff, consortium, network circuits and electronics, legal, accounting, E-Rate Processing, and audit reviews)
- Engineering and E-Rate support to establish connections
- No charge to Schools and Libraries for transport services and network management
- Internet Access Service at a low cost based on statewide volume
- Distributed Denial of Service (DDoS) mitigation for MiSEN-connected schools and libraries at no charge
- Network monitoring and capacity planning

WHAT?

SEN is a fiber-optic network that aims to provide high-speed internet access to all Michigan schools, ensuring that students and teachers have the bandwidth needed for modern digital learning.

CONSOLIDATION OF SERVICES

[MiSEN](#) is proud to support the 12c Consolidation Connectivity Grant, aimed at connecting entities identified through the connectivity feasibility study. This grant enables MiSEN to sustain its operations and assist eligible educational institutions in joining the State Education Network (SEN). Through SEN, participants gain access to regional and statewide collaboration, high-speed transport and internet services, and robust cybersecurity protections, including DDoS mitigation.



Broadband Facts

Michigan Statewide Educational Network (MiSEN)

State Education Network: Transport & Internet Access*

Fixed Broadband Consumer Disclosure

MiSEN Service Membership Fee Scaled by Discount

This monthly price is an introductory rate No

There are no fees for E-Rate eligible entities for data transport services.

No equipment fees for usage of this service.

Link to Membership Agreement.

<https://www.misen.org/terms-of-contract>

Additional Member Charges & Terms

E-Rate Consultation and Filing	\$0.00
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Technical Network Consulting	\$0.00
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Fiber Optic Construction and Maintenance Consulting	\$0.00
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IRR & RPKI/ROA Security	\$0.00
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Discounts & Bundles

DDoS Protection Services	\$0.00
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Network Status and Ticketing Portal	\$0.00
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Speeds Provided with Plan - Minimum Starting Bandwidth

Minimum Download Speed	10 Gbps
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Minimum Upload Speed	10 Gbps
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Typical Latency	<20 ms
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Internet Bandwidth Monthly Member Price \$.09 per Mb/s

Price before E-Rate Eligible Discount

Price adjusted with compliance of a properly filed E-Rate Form 479 certifying compliance with the Children's Internet Protection Act.

Network Management Policy

https://www.misen.org/annual_report

Privacy Policy

https://www.misen.org/about_misen

Member Support

Phone: (810) 591-4428

E-mail: info@misen.org

Website: https://www.misen.org/misen_staff

Learn about the terms used on this label. Visit the Federal Communications Commission's Consumer Resource Center.

<https://www.fcc.gov/consumers>

*MiSEN is a 501(c)(3) organization procuring broadband service on behalf of E-Rate eligible institutions in the State of Michigan and is not an internet service provider.

This document is for promotional purposes only and not intended to be a fact sheet under the FCC's guidance.

Impact

Number of Students

Starting July 1, 2025, expansion of the SEN due to grant funding will impact an additional 15,112 students.

15,112

1M+

166

102

Operationally

Over 1 million students have been impacted.

Unconnected

Schools have been identified as unconnected, meaning they do not have a direct connection to the ISD network, preventing them from accessing SEN Services.

Underserved

Schools that are currently connected to a network, but don't meet Michigan's minimum connectivity standard of 1Gbps.

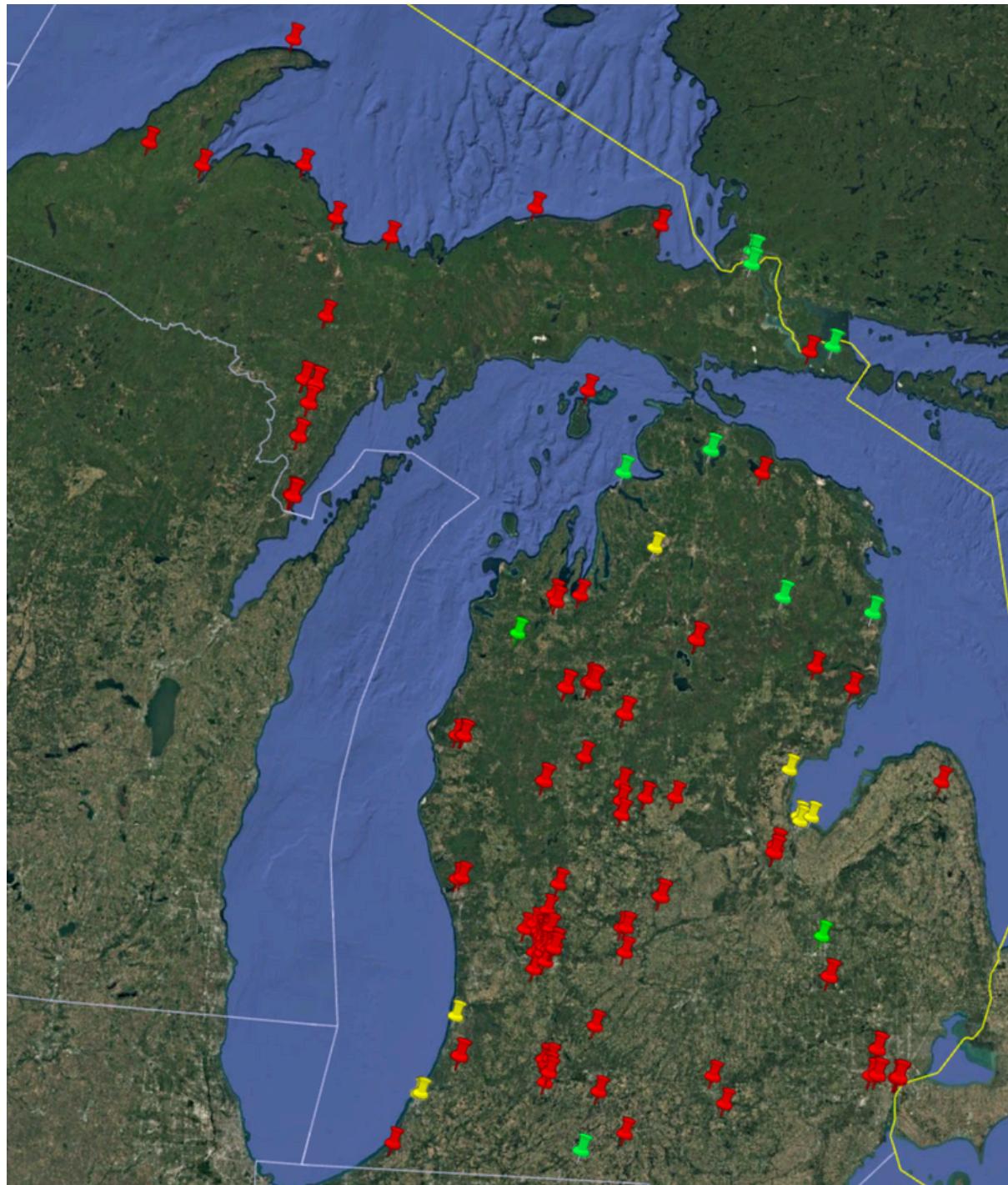


- **Improve the health, safety, and wellness of all learners** through robust cybersecurity protections, including DDoS mitigation.
- **Provide adequate and equitable school funding** by offering transport services and network management at no charge to schools and libraries, and low-cost internet access service, as well as leveraging E-Rate funding.
- **All students have access to high-quality instruction regardless of their gender, sexual orientation, ethnicity, race, economic status, native language, or physical, emotional, and cognitive abilities to close the student achievement and opportunity gaps that currently exist** by connecting all schools with the networking capacity for modern digital learning content, ensuring all students can access educational resources and engage in interactive learning experiences.

Student Impact

MiSEN directly impacts students by ensuring consistent, uninterrupted delivery of internet service for teaching and learning, as well as allowing districts to reinvest savings into enhancing teaching and learning resources and services.

Identified Entities



📌 Underserved

📍 Unconnected

📍 In process

Collaboration

The list of vendors, third-party entities, and other educational entities are working collaboratively to consolidate services for the successful implementation of the 12c-Consolidation MiSEN Expansion grant.

- The **MiSEN Board** and **Staff** provide dedicated and diligent work in operating and expanding the network.
- **Michael Andrews** and **David Childs**, who were the original designers of MiSEN, still serve as trusted advisors.
- The **MiSEN Advisory** collaborate in developing a network whose collective value exceeds the sum of its individual parts.
- **E-Rate Central** and **Joe Polasek**, provide partnership and E-Rate support.
- **Kalamazoo RESA** and **Lapeer ISD** supply network engineer staff and Fiber Plant/Engineering support.
- **Shiawassee RESD** sponsored the connectivity feasibility study and now fiscal for the consolidation grant to support unconnected and underserved schools.
- **Genesee ISD** provide support with staffing and business services.
- **Merit Network** and **123NET** partner in this service delivery model.
- Schools, Health & Libraries Broadband Coalition (**SECA**) and Schools, **Health & Libraries Broadband Coalition (SHLB)** offer E-Rate and National Network advocacy support.
- Members of **Michigan Association of Intermediate School Administrators (MAISA)**, the **Michigan Educational Technology Leaders (METL)**, and **MichIT** support, guide, and align opportunity to scale educational technology solutions across Michigan's K-12 landscape.
- **Michigan Department of Education (MDE)**, **Michigan Department of Technology, Management, and Budget (DTMB)**, and the **MI legislature**, critical support is integral to SEN's future.

Advisory Members

Region	Location	Member
1	Copper Country ISD	Josh Hiner
2	COOR ISD	Josh Hayes
3	Mecosta-Osceola ISD	Fred Sharpsteen
3	Muskegon Area ISD	Myles Sylva
3	Ottawa ISD	Troy Calgaro
3	Educational Technology Assoc	Patrick Wroble
3	Kent ISD	Tim Lillis
4	Clare-Gladwin RESD	Ken Chinavare
5	Genesee ISD	Kevin Kickbusch
5	Lapeer County ISD	Shawn Gartee
5	St Clair County RESA	Steven Tenniswood
5	Lapeer County ISD	Matt Molloseau
6	Clinton County RESA	Pete Klein
6	Ingham ISD	Mike Lilly
7	St Joseph County ISD	Ben Daugherty
8	Livingston ISD	David Larson
9	Oakland ISD	Christopher Hammond
10	Wayne RESA	Kurt Rheaume
	MiCH/MAISA	Tom Johnson
	MiCH/MAISA	Tammy Evans
	MiCH/MAISA	Matt McMahon
	MiCloud/MAISA	Mike Coats
	MDE	Joe Polasek
	MiSEN	Merri Lynn Colligan
	MiSEN	Kurt Torok
	MAISA/MiSEN	Dan Allen

SEN Advisory comprises Intermediate School District technical representatives from the ten regions and partnering organizations to ensure technical and educational impacts are addressed at every step of the operation and expansion of the network.

Cost Savings, Return on Investment, and Value Proposition

PRIOR YEAR FUNDING

12c-Consolidation of Services grant funds were awarded to Shiawassee RESD in November, 2024, while funding was not released until January of 2025. Therefore, \$0 were spent on the consolidation or consolidation of services in the prior fiscal year.

With only six months of funding, efforts are underway to realize the cost savings, return on investment, and value proposition outlined in the 11x-[Feasibility Study](#), see pages 4-12. The figures below represent some of the key data points related to the core consolidation of services: broadband, internet, and E-Rate administration. **Total cost of savings will not be realized until full implementation is achieved.**

~\$4M/yr

Cost Savings

MiSEN connects ISD networks to Tier 1 Statewide Data Centers at no cost (~\$4M/yr) for member districts, this significantly increase cost savings. Since 2014, MiSEN has impacted pricing has dropped from \$2.00 to \$0.09 per Mbps—an over 95% reduction in cost.

300%

Return on Investment

In addition to the efforts to be efficient with consolidated services, utilizing E-Rate will stretch the return on investment at the rate of 300% or \$0.70 in federal reimbursement for every \$1 spent.

40%

Value Proposition

MiSEN delivers high-speed, secure broadband to Michigan K-12 schools at up to 40% lower cost than commercial providers. By leveraging E-rate discounts and state matching funds, districts gain scalable, compliant infrastructure that supports digital learning, cybersecurity, and collaboration across educational entities.

PROGRAM INCOME

In support of sustainability, Shiawassee RESD's accumulated interest of [\\$648,401.44 on the total award of \\$49,853,722](#) will be added to the disbursement of funding to MiSEN. These dollars will be used for the purpose and under the conditions of the state award to achieve expanded service directly in relation to the grant goals and objectives.

Focus on the Future

(Grant Activity Status)



Ensure support to identified entities as they progress through the process of developing connections for collaboration. - *In Progress*



Communicate project opportunities to other PSAs through outreach. - *Pending*



Remove barriers to the consolidation and collaboration across the SEN and school networks. - *On-going*

	NOW	NEXT	LATER
C -	Study MiSEN Connections Unserved and Capacity Growth. Build the connections model for School sites.	P - Establish RFP and E-Rate filing plan and timeline for connecting Unconnected and Underserved Schools	C - Develop templates for RFI, RFP to connect additional sites.
P -	Audit ISD Connections and execute Master Agreements with all parties.	P - Develop a MiSEN Data System	P - Exploration / Implementation of new E-rate opportunities: Fiber Maintenance, Firewalls, Cybersecurity for the SEN
C -	Establish a Communication Plan to Build understanding of what MiSEN provides to prepare for the legislative ask for sustainable funding	P - Support Regional Connectivity requests - design and E-Rate for Matching Funds	N - State-wide - USF WAN bid by region- fiber build-out
P -	Explore direct connect to SEN for secure private transport (MiCLOUD via AWS, DRC connection for Assessment Delivery)	P - Connect SEN, MiNOC, and MiSecure engineering to a community of support for ISDs	C - MiSEN/MiSecure to develop cybersecurity recommendations for the SEN (E-Rate pilot /SLCP)

Status Key

- (Unknown)
- (Not Started)
- (In Progress)
- (Completed)

Appendices

- [Feasibility Study](#)
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- [MiSEN 2025 Connectivity Grant Tour](#)
- [Two Pager - Grant and E-rate Timeline.pdf](#)
- [Application Process for State Matching Funds](#)
- [Current State Level Data Report](#)



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Michigan Statewide Educational Network

Contact Information
INFO@MiSEN.org
www.MiSEN.org



Genesee Intermediate
School District



These materials were developed by MAISA, MiSEN, and Shiawassee ISD under a grant awarded by the Michigan Department of Education.

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