

## Agenda

- 1 Initiative Progress + Highlights (25 min)
- ESH + Federal Outlook (10 min)
- K-12 Connect Forward Priorities (25 min)



Progress + Highlights



## **Background**



currently in use and the need, if any, for increases in speed and capacity to meet



current or anticipated needs"





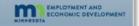






#### Questions we are trying to answer:

- What are K-12 schools currently buying and using for broadband connections?
- Are there gaps between what they need and what they have?
- Are we fully utilizing E-Rate funds?
- What role does the state TEA program play?
- Are our districts getting fair pricing?
- Are schools set for future needs?





#### K-12 Connect Forward Goal

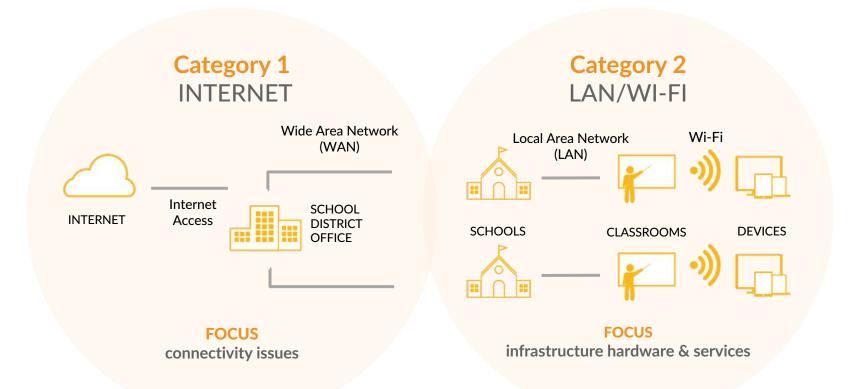
To ensure that all students in Minnesota have access to scalable infrastructure, high-speed affordable bandwidth, and ubiquitous Wi-Fi for digital learning.



#### **Overview of E-rate**

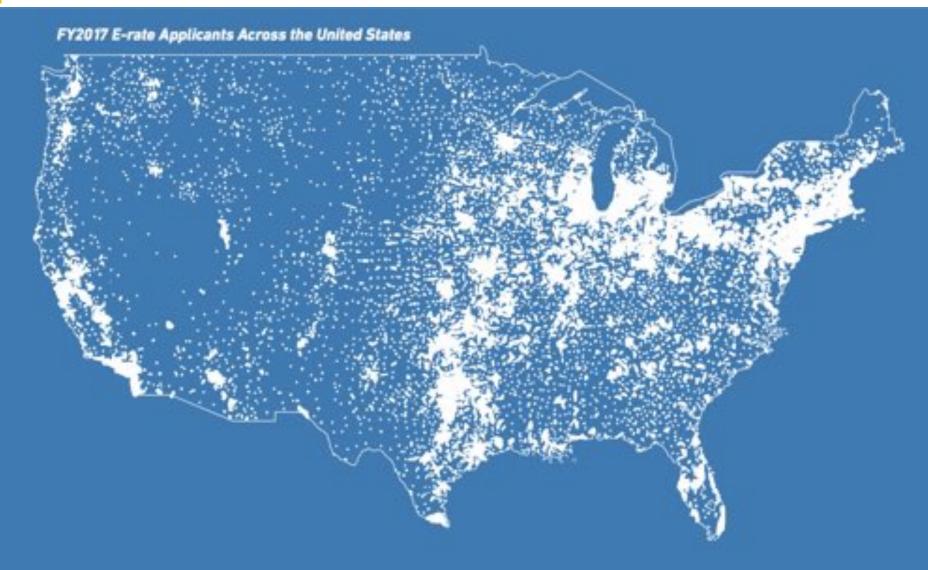
- The E-rate program is operated by the Universal Service Administrative Company (USAC) under the FCC
- ▶ \$3.9 billion is available annually for schools

E-rate funds K-12 broadband connectivity & infrastructure:





## **E-rate Adoption**

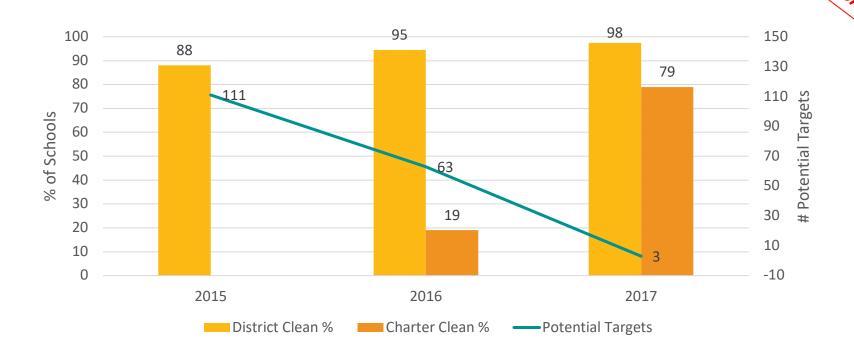


https://www.fundsforlearning.com/docs/2018/01/2017%20-%20E-rateTrendsReport.pdf?trends=2017trendsrpt



#### Data Collection & Clarification

PRELIMINARY DATA

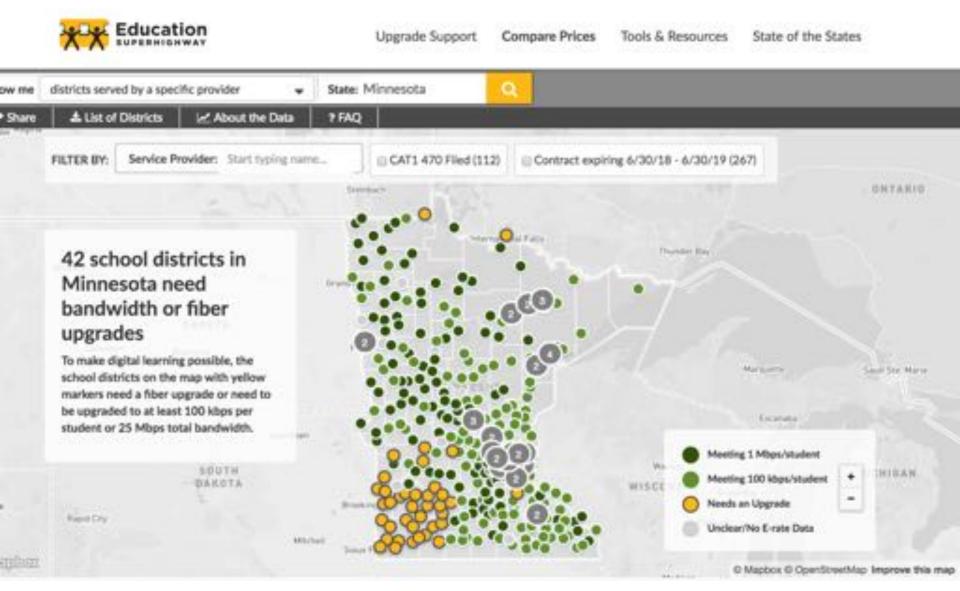


#### **Data Collection Methods**

- E-Rate applications (Form 471)
- District surveys
- ► METN working group + direct calls with consortia
- ► MN Charter School Association outreach + survey

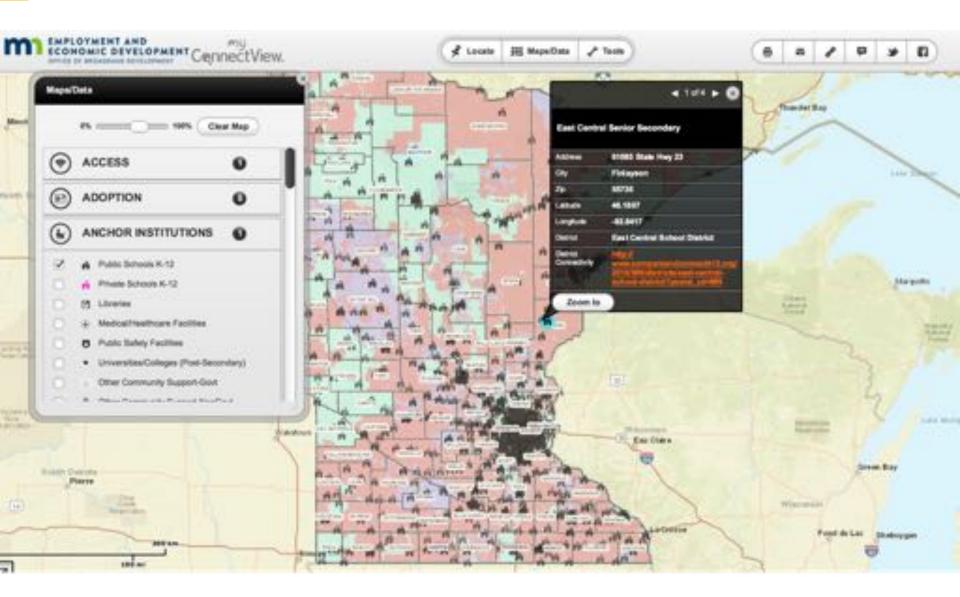


## **Data Transparency: Price and Need**





## Minnesota Broadband Maps

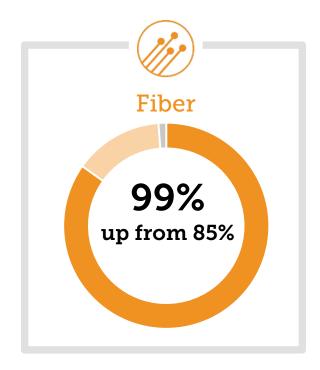




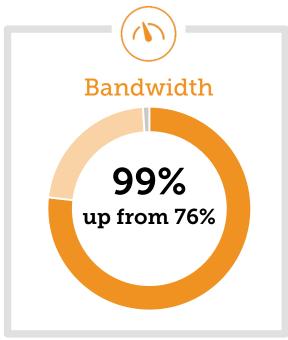
## Minnesota K-12 Connectivity

PREL MINARY DATA





Connect all schools to scalable infrastructure.



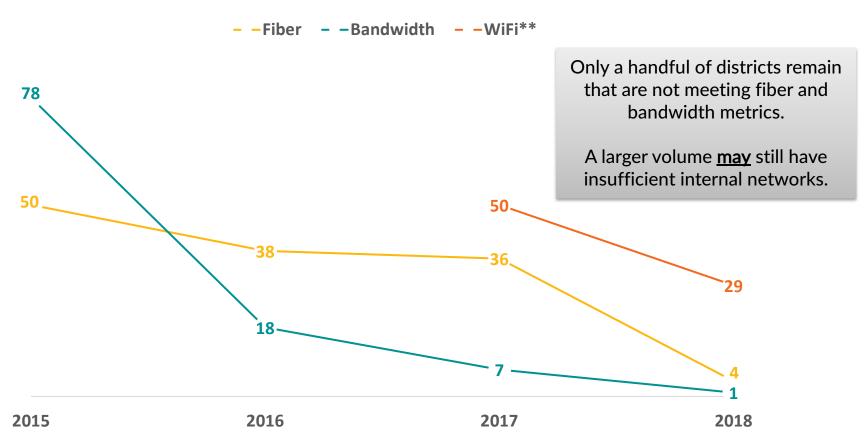
Help districts costeffectively obtain enough bandwidth to at least meet the FCC-adopted minimum goal of 100 kbps per student.



<sup>\* 2018</sup> data is an estimate based on preliminary review of this year's Form 471

## Minnesota School Districts are Closing the Gap





<sup>\* 2018</sup> data is an estimate based on preliminary review of this year's Form 471

<sup>\*\*</sup> Number of districts with Wifi need represents districts that have not used Category 2 funds. Data not measured prior to 2017 E-rate cycle

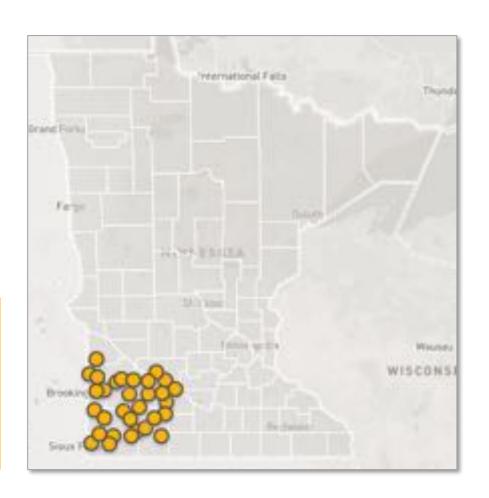


## **SWWC Consortium Fiber Upgrade**

- ▶ 30+ school districts in the SWWC consortium represented nearly 100% of schools in the state with non-fiber connections
- Consortium ran successful procurement to upgrade all schools to fiber with local provider, SDN

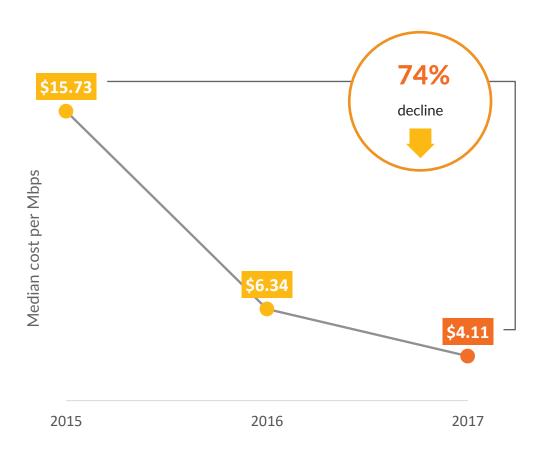
## **Upgrade impact:**

	Before	After
Technology	Microwave	Fiber
Avg. Bandwidth per District	100 Mbps	1 Gbps
Avg. Cost/Mbps	\$18.40	\$1.40





## **Broadband Affordability**



### To maintain momentum:

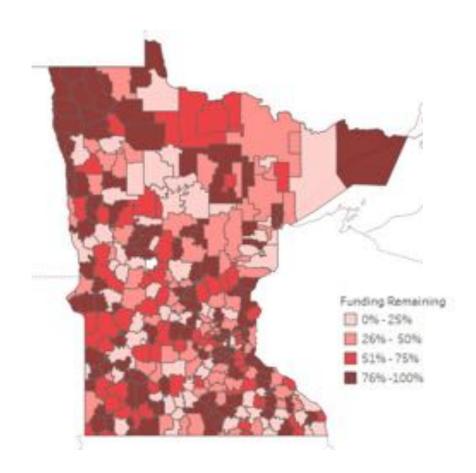
- Provider awareness
- Consortia support
- Data transparency

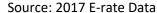
<sup>\*</sup> Price benchmarks were chosen because at least 30% of school districts nationally were purchasing those circuits at those prices in 2015



## **Category 2 Support**

- Identified districts that had 100%Category 2 funds remaining
- Launched marketing campaign and conducted targeted outreach to build awareness of funding and eligible services
- Held 1:1 consulting calls with districts needing additional support to develop an upgrade and procurement strategy

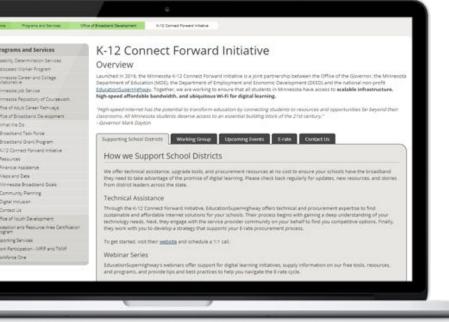




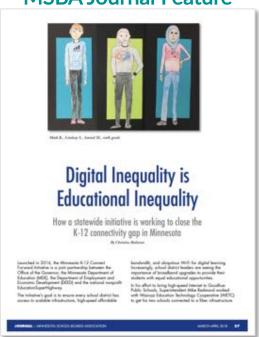


## **Marketing and Communications**

#### K-12 Connect Forward Website



#### **MSBA Journal Feature**



#### Social Media Kit



## **Charter School Survey**

Minnesota Charter School Broadband Survey

The Minnesota K-12 Connect Forward Initiative is continuing its support to MN K-12 schools in upgrading their Internet access for digital learning. The Initiative is a coordinated effort between the Office of the Governor, the Minnesota Department of Education (MDE), the Department of Employment and Economic Development (DEED) and the national non-profit EducationSuperHighway.



## ESH + Federal Outlook



## ESH is on track to complete our mission by 2020

By 2020, all schools will have access to high speed Internet so that they can realize the promise of digital learning

In the next two years, how can we ensure that:

- Schools continue to receive adequate funding through E-rate
- Schools have support to take action as digital learning needs evolve
- Schools have access to affordable and scalable broadband



## E-rate modernization has made digital learning a reality



35.2 M

More students gained access to the broadband they need in the last 4 years



88%

Of school report having sufficient Wi-Fi in their classrooms



**78%** 

Decline in the cost of Internet access in K-12 schools

But we still have work to do.

2,049 schools still need fiber

Bandwidth needs are growing 50% year over year in districts using digital learning. Fiber is the only technology that can support this growing demand.



## Red tape has led to delays and denials of fiber projects

DELAYS & DENIALS: 2016 AND 2017

Only

3 out of 279

Fiber projects received decisions by the Sep. 1 target date in 2017

Fiber projects are

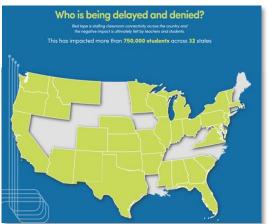
7x more likely to be denied 56%

of all denials were for reasons without merit

Over

**750K** students impacted







# K-12 Connect Forward Priorities 2018 and beyond



Moving forward, what is essential to ensuring that all Minnesota students have the infrastructure they need?



#### Some critical success drivers

#### **Data**

Robust data on school level connectivity and cost can help various stakeholders in planning, procurement and policy (consortia, TEA, B2B, etc.)

#### Consortia

School districts across the state have received a range of services and supports from consortia for over 20 years. What can be done to ensure that schools continue getting support with upgrades moving forward?

#### Charters, BIE and other entities

About 50% of charter schools leverage E-rate today. Bureau of Indian Education (BIE) schools, libraries and other educational entities are also E-rate eligible.

### **State Support**

K-12 Connect Forward has partnered MDE, DEED, METN and other groups towards a common vision to ensure that all schools have the connectivity they need for digital learning. The state provides funding through Telecommunications Equity Aid (TEA) to help districts with connectivity. What are the right supports moving forward?

#### Other?

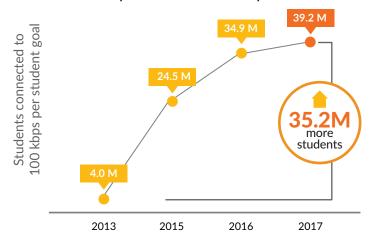


Thank you!

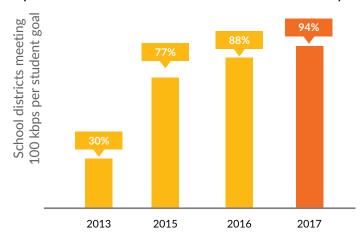


## **Progress**

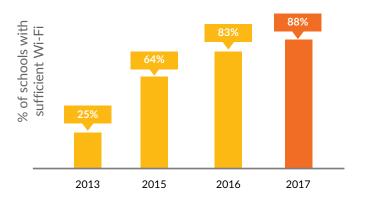
35.2 million more students gained access to the broadband they need in the last 4 years



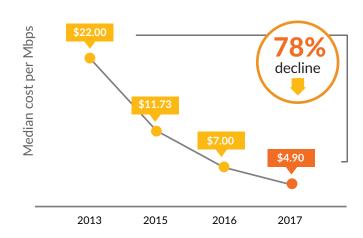
97% of schools have the fiber-optic connections required to meet current and future connectivity needs



88% of schools report having sufficient Wi-Fi in their classrooms



The cost of K-12 Internet access has declined 78% in the last 4 years



Source: EducationSuperHighway data analysis



## **Annual E-rate Cycle**

## Upgrading your network is a year-long process. Get started early!

#### E-RATE CYCLE

