Expanding Broadband for Education
Nov. 19 | Expanding Broadband Opportunities in Rural America
Dec. 7 | Expanding Broadband for Education
Jan. 2021 | Spectrum Licensing by the States
The National Conference of State Legislatures is the country’s most trusted bipartisan organization serving legislators and staff. We promote policy innovation, create opportunities for lawmakers to share knowledge and ensure state legislatures have a strong, cohesive voice in the federal system. We do this because we believe in the importance of the legislative institution and know when states are strong, our nation is strong.
EXPANDING BROADBAND FOR EDUCATION
CO-SPONSORED BY THE EDUCATION AND CFI STANDING COMMITTEES
Please join by video and add your full name on your tile

Be ready to contribute to the conversation by sharing your state’s approach or perspective

Mute your audio when you are not speaking

Type your questions or comments into the chat box on the right side of your screen during the presentations

Do not share your screen under any circumstances

This meeting is being recorded and will be posted online for future reference
**Christine Fox is the Interim Executive Director for SETDA.** As Interim Executive Director, she is charged with charting the strategic direction, administration, planning and financial decisions involving SETDA. She also facilitates the members’ online and in-person professional learning opportunities. In addition, she manages SETDA’s research and product development projects from conception to publication. The management of such projects includes supervising consultants and staff, coordinating data collection from all states, ensuring member input and supervising the publication process.

Christine’s background includes experience in education as an educational consultant and curriculum developer, ESOL Coordinator and 3rd grade teacher. She has a Masters of Science in Teaching English as a Second Language from Florida International University and received her Bachelor’s degree in English Literature from Florida State University.
About SETDA

SETDA is a non-profit membership organization with a mission to:

- Serve, support, and represent U.S. state and territorial directors for educational technology.
- Mission to build and increase the capacity of state and national leaders to improve education through technology policy and practice.

Forum for:

- Advocacy for policy and practice
- Professional learning
- Inter-state collaboration
- Public-private partnerships

Follow us @SETDA
About SETDA Members & Partners

State Leaders: Members from all 50 states, the District of Columbia, Virgin Islands, Guam & American Samoa. [http://www.setda.org/states/](http://www.setda.org/states/)

Private Sector Partners: Non-profit & for-profit private sector partners (platinum/gold/emerging) & channel partners that align with our mission, priorities, & advocacy goals. [http://www.setda.org/partners/](http://www.setda.org/partners/)

SETDA Advocates for Digital Learning

Quality Content Guide

State K12 Instructional Materials Leadership

Trends Snapshot

Broadband Imperative III
Driving Connectivity, Access and Student Success

State K-12 Broadband Leadership 2019:
Driving Connectivity, Access and Student Success

Transformative Digital Learning
A Guide to Implementation

Planning  Operations  Professional Learning  Instructional Materials  Equity & Access
This coalition provides the opportunity to spark innovation around eLearning to ensure students continue learning from home. It is essential that educators collaborate to provide best practices and a framework for instruction.

[coalitions.setda.org/elearning]
Catalyst for Change

- Reshaping teaching and learning
- Digital resources support personalized learning
- Modern administrative applications
- Ensure economic inclusion & meet the needs of the modern workforce
- Develop lifelong learners
Considerations for 2021 & Beyond

- Quality Blended Learning Opportunities for All Students
  - Blended Learning as a framework for personalized instruction
  - Ensure Digital Equity for All Students
    - Provide Secure Broadband Connectivity and Devices
    - Provide Support to Build-out Infrastructure
  - Ensuring blended learning is aligned to standards (online learning, ed tech and content standards)
- Empower Educators to Provide Meaningful Student Learning Outcomes
- Strengthen Educational Technology Leadership
Equity of Access

- Common Sense Media and Boston Consulting Group estimates that between $6 billion to $11 billion in additional emergency funding is required to connect all students.
- According to an analysis of data from the 2018 American Community Survey conducted for the Alliance for Excellent Education, National Urban League, UnidosUS, and the National Indian Education Association, millions of households with children under the age of 18 years lack two essential elements for online learning: (1) high-speed home internet service and (2) a computer.
- The National Center for Education Statistics reported in 2017 that for 5- to 17-year-old students living in households in remote rural areas, the percentage without internet access at home was particularly high; 41 percent of Black students and 35 percent of students living in poverty had either no internet access or only had dial-up access at home.
Legislation Considerations

*Representative Grace Meng (D-NY) introduced the Emergency Educational Connections Act (H.R. 6563). Provides $2B to connect students at home through E-rate. Incorporated into the House passed HEREOS Act (H.R.6800) at $1.5B.

*Senator Ed Markey (D-MA) introduced a Senate companion to the Meng E-rate bill, but his version (S.3690) seeks $4 billion. The bill has 44 cosponsors, but no Republicans.

This Week: Senate leaders are negotiating a bill that includes up to $10 Billion for connectivity including E-Rate, libraries and infrastructure.
Effective Professional Learning

What the experts say...

- Is content focused
- Incorporates active learning utilizing adult learning theory
- Supports collaboration, typically in job-embedded contexts
- Uses models and modeling of effective practice
- Provides coaching and expert support
- Offers opportunities for feedback and reflection
- Is of sustained duration

(Darling-Hammond, Hyler, & Gardner, 2017)
Ed Tech Leadership

**Develop a Shared Vision**
for how technology can support teaching and learning for all students

**Seek Input**
from a diverse team of stakeholders to adopt and communicate clear goals for teaching facilitated by technology

**Communicate**
with all stakeholders by using appropriate media and technology tools and establish effective feedback loops

**Understand Research**
Ensure that practitioners at the school and district level use and understand research
Questions
Questions: PLEASE TYPE THEM IN THE CHAT BOX
Evan Marwell is the founder and CEO of EducationSuperHighway. In eight years, EducationSuperHighway closed the digital divide in America’s K-12 schools – connecting nearly 47 million students in 99.7% of America’s classrooms to high-speed broadband. To accomplish this, Evan secured commitments from 85 governors from all 50 states to upgrade their schools for the 21st century and $2.5 billion per year of federal funding to make these commitments a reality.

A recipient of the San Francisco Chronicle’s Visionary of the Year award and a serial entrepreneur, Evan launched companies over the last 25 years in the telecom, software, and hedge fund industries. Evan is an honors graduate of Harvard College and Harvard Business School, an advisor to high-potential social entrepreneurs, and the board chair of myAgro, an NGO helping smallholder farmers in Africa move out of poverty.
EducationSuperHighway partnered with all 50 states to close the classroom connectivity gap

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools</td>
<td>22,958 OF SCHOOLS WITHOUT FIBER</td>
<td>503 OF SCHOOLS WITHOUT FIBER</td>
</tr>
<tr>
<td>Students</td>
<td>4M STUDENTS MEETING 100 KBPS PER STUDENT GOAL</td>
<td>46.7M STUDENTS MEETING 100 KBPS PER STUDENT GOAL</td>
</tr>
<tr>
<td>Cost</td>
<td>$22.00 COST PER MBPS</td>
<td>$2.00 COST PER MBPS</td>
</tr>
</tbody>
</table>

- 99.3% schools on fiber
- 99.7% districts connected
- Cost has declined 90% since 2013
EducationSuperHighway is now working to connect the 10-15 million students who lack home broadband.
36 states have allocated over $1.5B in CARES funding for K-12 digital access.
Three issues prevent school districts from closing the K-12 home connectivity gap

**DATA**
- to identify which students do not have home Internet access and which ISPs can serve them

**FUNDING**
- for states and districts to purchase affordable home Internet access on behalf of students’ families

**ADOPTION ROADBLOCKS**
- that prevent families from signing up for free or low-cost home broadband services

The same challenges prevent the nation from closing the digital divide at large
Chicago created an innovative approach to solving these problems

CHICAGO CONNECTED
Chicago leveraged data sharing with ISPs and an aggregated procurement model to close the digital divide for its students:

- Gave local ISPs 355,000 anonymized student addresses under NDA
- ISPs identified which addresses had home broadband and which of the unconnected addresses they could serve within 10 days
- Identified 100,000 students in 60,000 households without home broadband
- Chicago Public Schools issued an RFP to procure home broadband for these homes – 92% of which could be connected with existing infrastructure
- Eliminated information gap, credit, debt and documentation barriers for families

North Dakota used the same approach to connect 99.8% of their students to home broadband
EducationSuperHighway has partnered with four National Telecom Associations and over 80 Internet Service Providers to enable states and school districts to identify students without broadband and purchase service for low-income families.

**CORE PRINCIPLES**

1. Companies will **create a “sponsored” service offering** for school districts or other entities.
2. Companies will work together with school districts to **identify which students need service**.
3. Companies will agree to a baseline **set of eligibility standards**.
4. To maximize adoption, companies will **minimize the amount of information necessary** to sign up families.
5. Companies offering sponsored service arrangements to schools **should not use school-supplied information for targeted marketing of collateral services to families**.
K-12 Bridge to Broadband covers over 80% of households

4 Telecom Associations
Over 80 National and Local ISPs ...and growing
K-12 Bridge to Broadband gives states the data they need to close the K-12 home broadband gap

Get actionable data to identify unconnected students, down to the household address level, along with specific ISP solutions to connect them.

Prioritize connectivity upgrades based on the data to make high-impact purchases that will improve connectivity for the students who need it most.

Make the case for increased investment in Internet connectivity in the unconnected regions with data-driven advocacy.
Timeline & Goals - Conduct data exchanges with 20+ states by summer

- **NOV-DEC**: Validate technology & business processes through five state pilots
- **JAN-FEB**: Conduct data exchanges with all major providers
- **MAR-JUN**: Scale with states to provide data for summer procurements

Contact Us | Grace Ting, State Relationship Management Director, grace@educationsuperhighway.org
STATE INVESTMENTS IN ONLINE LEARNING
STATE INVESTMENTS TO CLOSE DIGITAL DIVIDE

- At least 39 states have pledged funds
  - Using 4 CARES funding streams
    - not ESSER funds for districts ($12b)
- $1.3b dedicated + $388m optional
  - Internet Connectivity
  - Device Availability
  - Online Learning resources
INTERNET CONNECTIVITY

- **Temporary Access Points**
  - Broadband extenders at schools and libraries
  - Distributing wireless hot spots
  - Wi-Fi equipped buses

- **Direct support for families**
  - CT and DC pay internet bills

- **Broadband infrastructure**
  - AZ: $40 million for broadband fiber to rural communities
  - MD: $20 for “wireless education network” for rural communities
DEVICE AVAILABILITY

- Districts distribute devices to students
  - Most common strategy
  - IL, MD, NC, TN: $212.5 million collectively

- Direct support for families
  - Alabama $100 million “Alabama Broadband Connectivity for Students”
  - Maine DOE distributed 15,000 devices to students
ONLINE LEARNING RESOURCES

- **Online Learning Platforms**
  - VA: teachers create and share content, provide personalized instruction, and facilitate professional development.
  - PA: real-time instruction to improve remote learning and support for students with complex learning needs

- **Content and Curriculum**
  - “Learn Anywhere Oklahoma”: access to digital content, including AP courses
  - Montana Digital Academy: enrollment opportunities for students and extend remote proctoring services for credit recovery students
FEDERAL ACTIONS

- **FCC E-Rate Program**
  - April 1: FCC Extends E-Rate service implementation and filing deadlines
  - Sept 16: FCC announces second funding year 2020 filing window to allow schools to request additional E-Rate funding

- **FCC Wireless Telecommunications Bureau**
  - Oct 23: Grants First Licenses in 2.5 GHz Rural Tribal Priority Window
## COVID Emergency Relief Framework

<table>
<thead>
<tr>
<th>Major Issues</th>
<th>Cost Estimate</th>
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<tbody>
<tr>
<td>State, Local, and Tribal Governments</td>
<td>$160 billion</td>
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<tr>
<td>Additional Unemployment Insurance (UI)</td>
<td>$180 billion</td>
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<tr>
<td>Support for small businesses including Paycheck Protection Program (PPP), EIDL, restaurants, stages, and deductibility</td>
<td>$288 billion</td>
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<tr>
<td>CDFI/MDI Community Lender Support</td>
<td>$12 billion</td>
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<tr>
<td>Transportation (Airlines, Airports, Buses, Transit and Amtrak)</td>
<td>$45 billion</td>
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<tr>
<td>Vaccine Development and Distribution &amp; Testing and Tracing</td>
<td>$16 billion</td>
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<tr>
<td>Healthcare Provider Relief Fund</td>
<td>$35 billion</td>
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<tr>
<td>Education</td>
<td>$82 billion</td>
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<tr>
<td>Student Loans</td>
<td>$4 billion</td>
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<tr>
<td>Housing Assistance (Rental)</td>
<td>$25 billion</td>
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<tr>
<td>Nutrition/Agriculture</td>
<td>$26 billion</td>
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<tr>
<td>U.S. Postal Service</td>
<td>$10 billion</td>
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<tr>
<td>Child Care</td>
<td>$10 billion</td>
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<tr>
<td>Broadband</td>
<td>$10 billion</td>
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<tr>
<td>Opioid Treatment</td>
<td>$5 billion</td>
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<tr>
<td>Provide short term Federal protection from Coronavirus related lawsuits with the purpose of giving states time to develop their own response.</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$908 billion</strong></td>
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</tbody>
</table>
Questions: PLEASE TYPE THEM IN THE CHAT BOX
Go to:
www.ncsl.org or