

# Virtual Technology Showcase

**technocracy** /tek'nɒkrəsi/  
an elite of technical experts.  
– DERIVATIVES **technocrat** n.  
**cratically** adv.  
**technology** ● n. (pl. **-ies**) the  
knowledge for practical pur

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**NYS School-Based Health Foundation**

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# Who is TTAC?

- TTAC is federally funded through the Office for the Advancement of Telehealth (OAT)
- TTAC provides Technology Assessment services to the 12 regional TRCs as well as the other national TRC.
- Between the three TTAC staff, there is over 50 years of experience in Telehealth



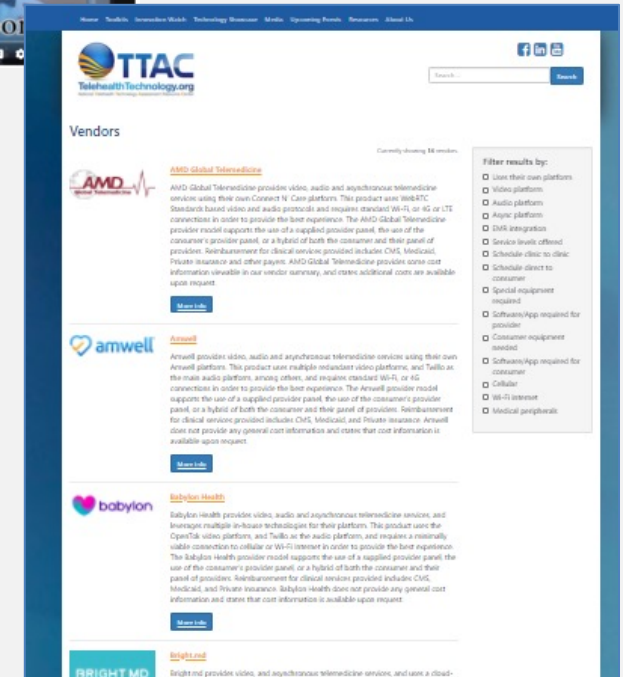


# Evaluations and Toolkits

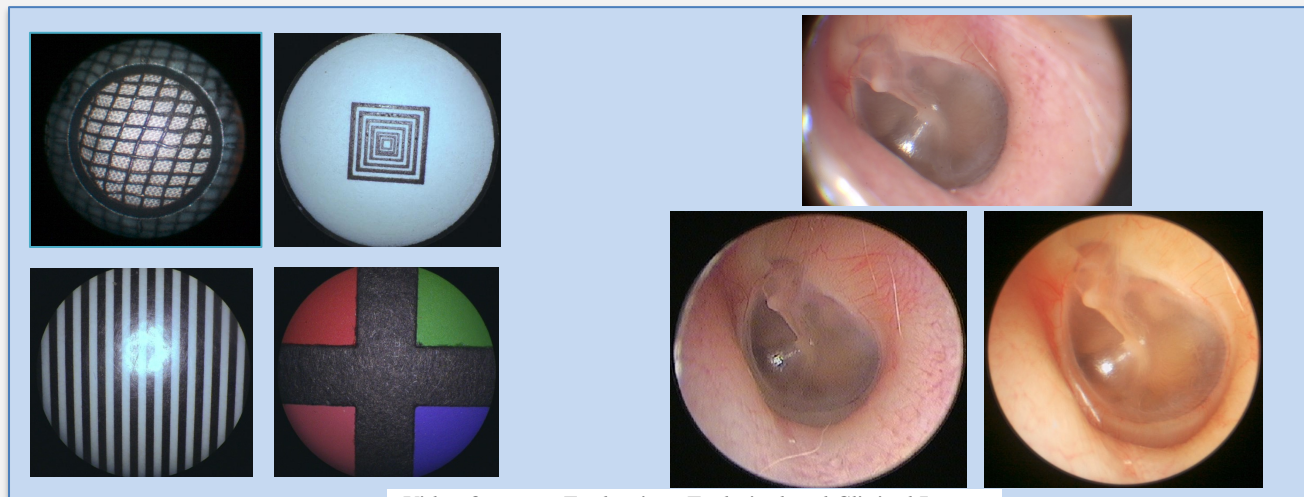
- Clinician's Guide to Video Platforms
- Technology Assessment 101 Toolkit
- Direct To Consumer Toolkit
- Video Platform Connectivity Evaluation
- Video Otoscope Evaluation
- Pandemic Response Plan Project



*Evaluation of connectivity and quality of common video platforms*



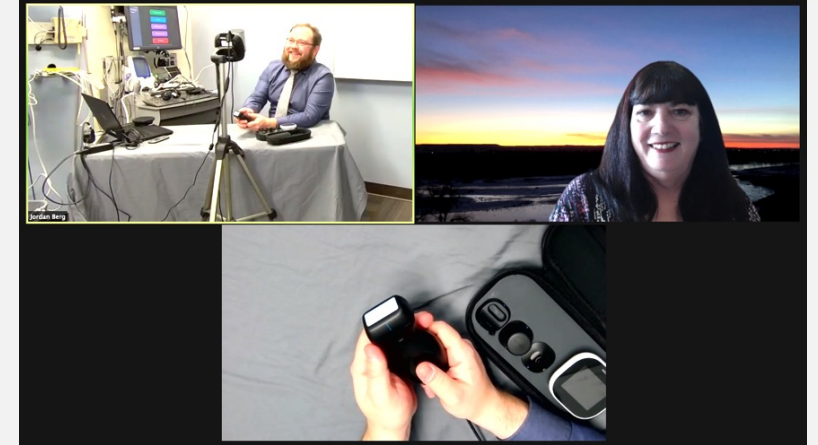
*Direct to Consumer Toolkit- Vendor Comparison page*



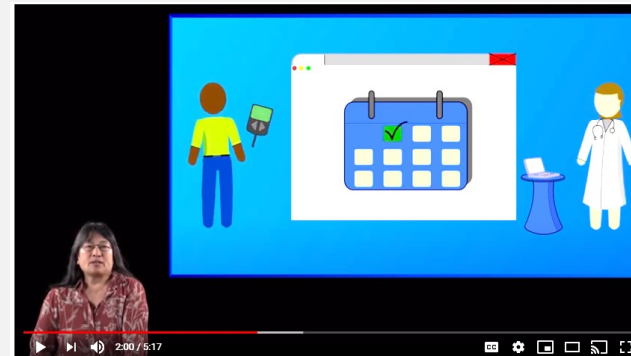
*Video Otoscope Evaluation- Technical and Clinical Images*

# Outreach

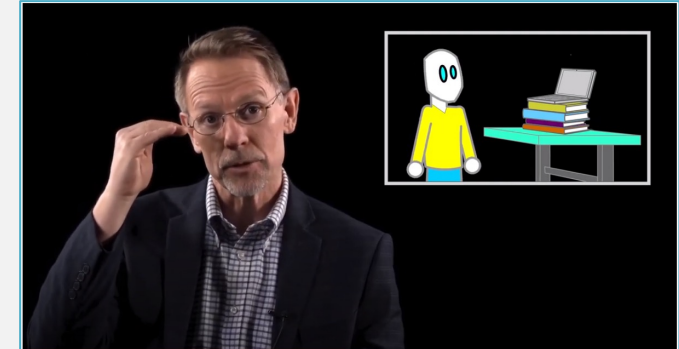
- **Tech Talks with the TRCs:**
  - Remote Patient Monitoring
  - Behavioral Health
- **Telemedicine Technology Vendor Interview Series**
- **Telehealth Technology Showcase**



*Jordan Berg and Doris Barta, TTAC Staff conducting a Webinar on Technology Trends*



*Kathy Wiberly, PhD., Director of the Mid-Atlantic TRC, discusses Remote Patient Monitoring on a Tech Talks with the TRCs video*



*Jonathan Neufeld, PhD., Director of the Great Plains TRC, discusses Tele-behavioral Health on a Tech Talks with the TRCs video*



# Technology Showcases



- Provided at Regional Conferences and Virtually
- Allows attendees to experience and compare medical peripherals
- Vendor Neutral



# National Consortium of Telehealth Resource Centers

Our website hosts many resources. If you can't find what you're looking for, contact your regional TRC:

[www.TelehealthResourceCenter.org](http://www.TelehealthResourceCenter.org)





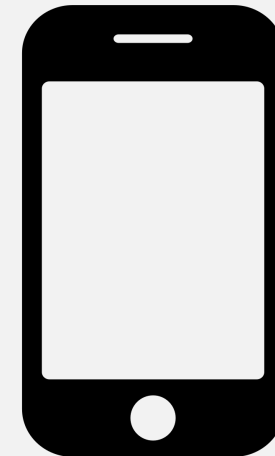
# Overview

- **Telemedicine Platforms Trends and Considerations**
  - Video Platform Testing
  - Broadband Connectivity
- **Video Conferencing Hardware**
- **Exam Cameras**
- **Final Thoughts**
- **Questions**



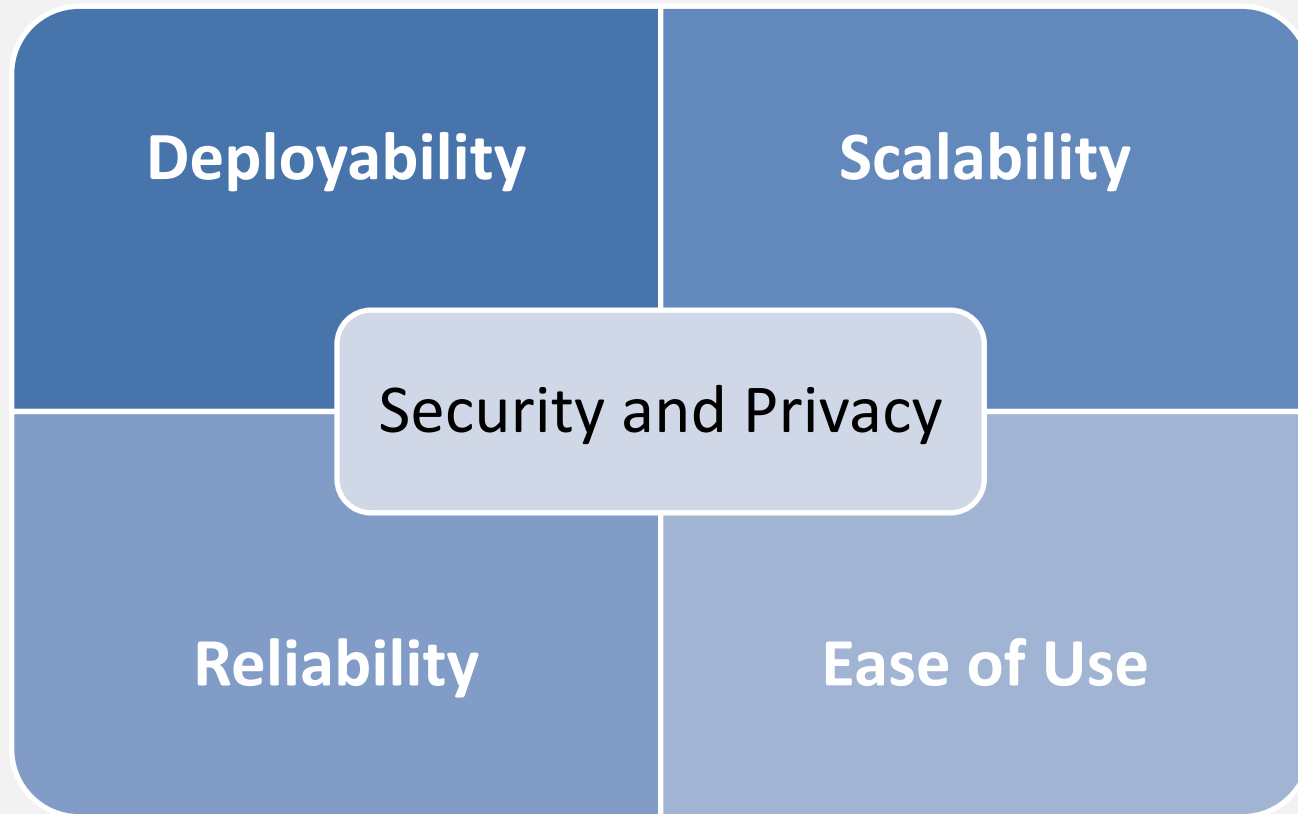
# Telemedicine Platform Trends

- **Web-Based**
- **Direct to Patient in Home**
- **Mobile Platforms**
- **Link Based/No Download**
- **General vs Telemedicine Platforms**



# Telemedicine Video Platform Trends: COVID 19

## Key Platform Dimensions:



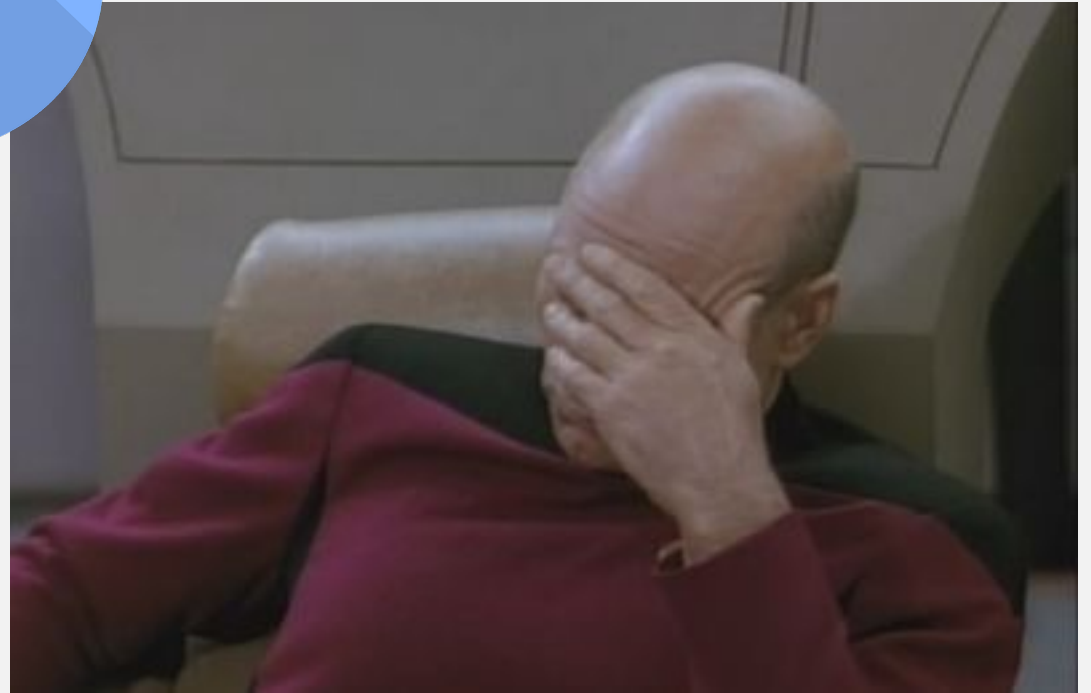


# Telemedicine Platform Trends

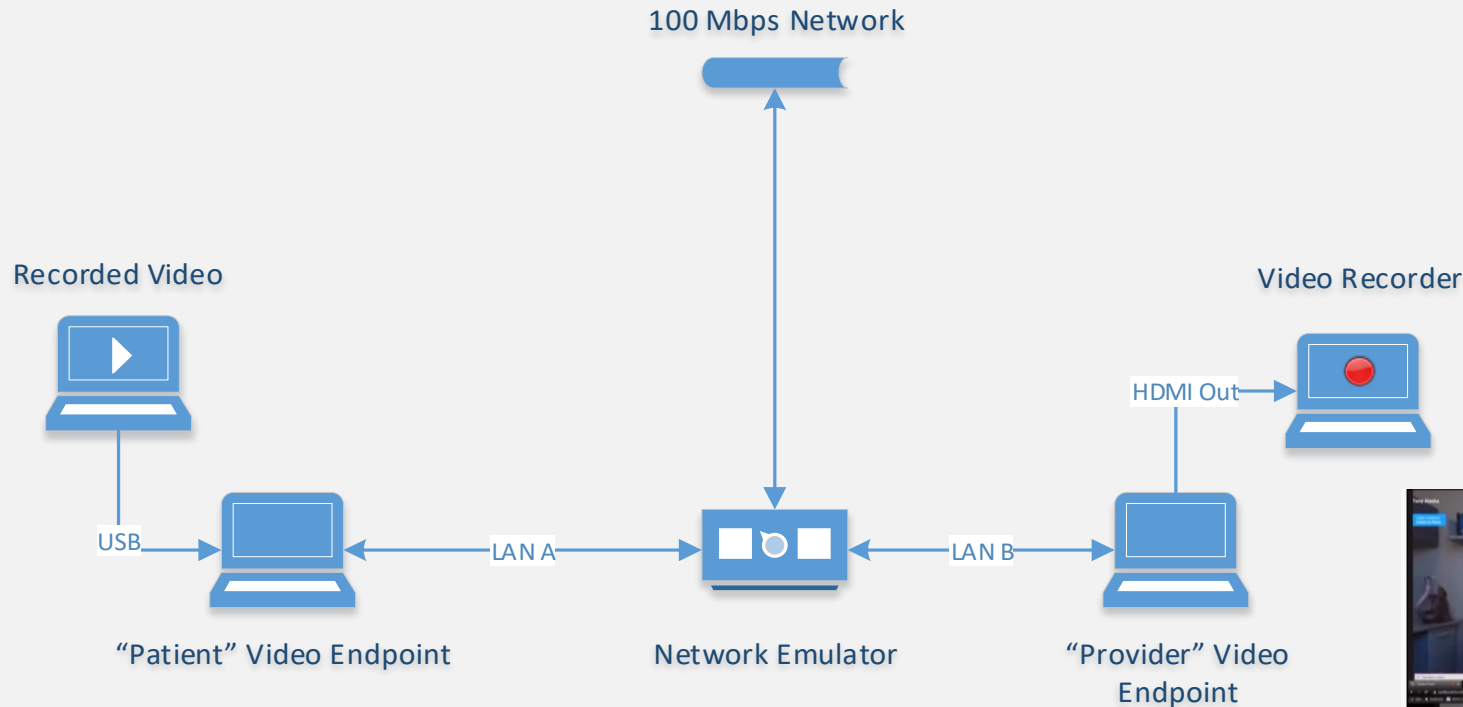


## **Security and Privacy:**

- **COVID-19: Relaxation of regulations**
- **Web-based video platforms**
  - **Training and Controls**
  - **Vendor Data Management**



# Video Platform Connectivity Assessment Overview



## Assessment Criteria:

- Connectivity
- Video Quality
- Audio Quality
- Usability/Overall Experience

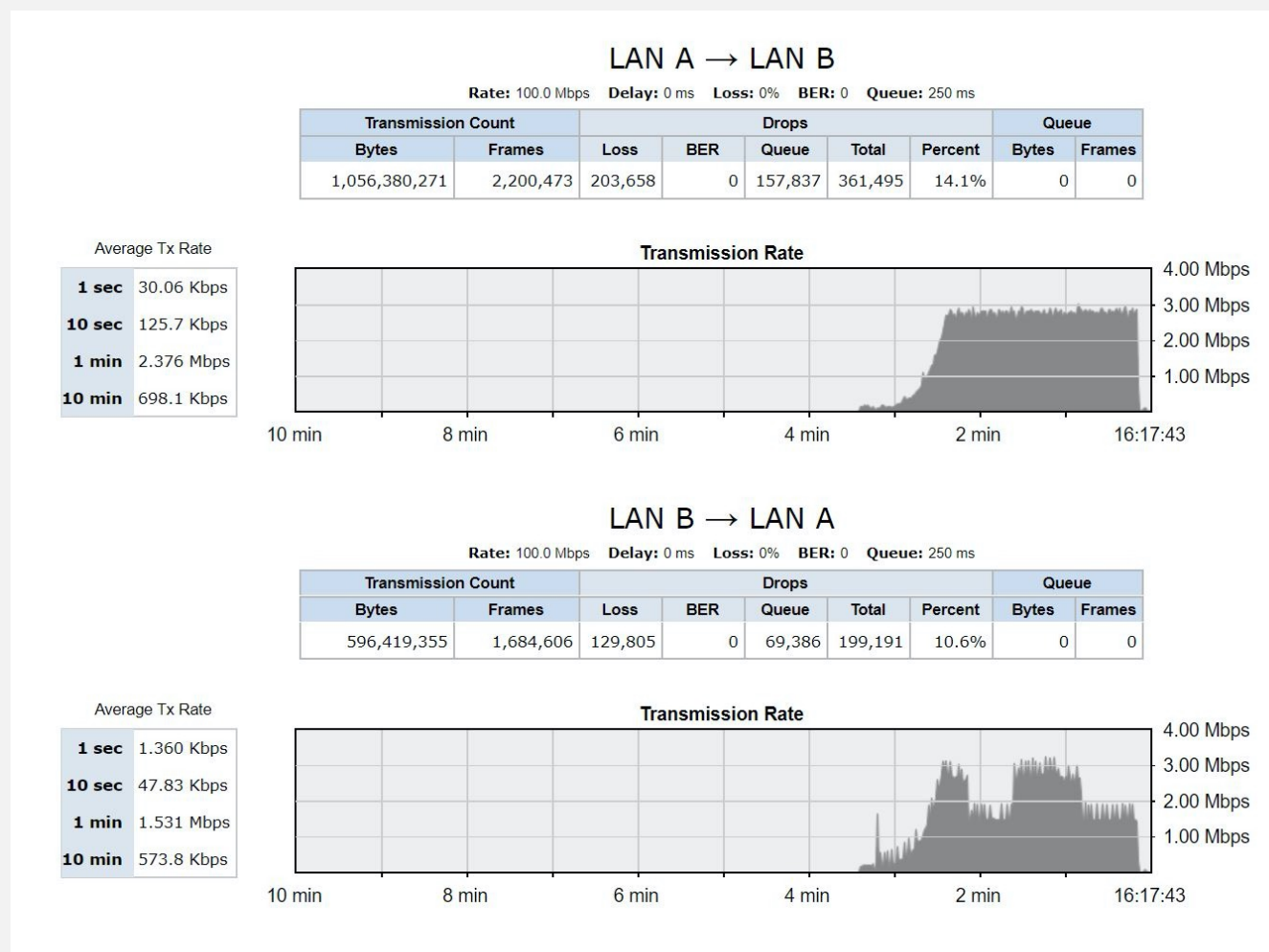


# Video Platform Evaluation: General Trends

## Biggest Challenges:

- Getting Connected
- Poor quality networks
  - Packet Loss and Delay
- Clientless and Mobile

But what about Broadband?





# Telemedicine Video Platform Trends: Broadband Connectivity

## Broadband and Rural Connectivity:

Traffic Increase +30%

Speeds have slightly decreased in some regions

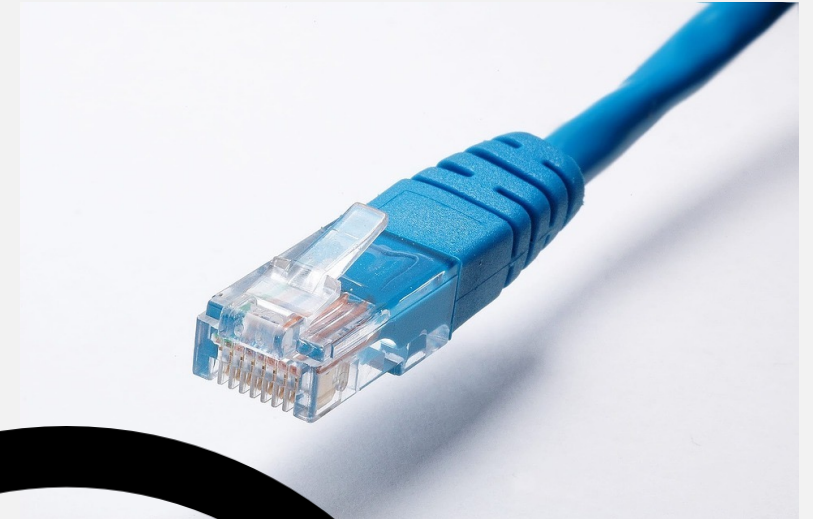
**\$9.2B** Rural Digital Opportunity Fund Auction-Phase 1

Barriers:

- Infrastructure
  - Cellular
  - Satellite
- Access/Price

Rural/Tribal Broadband Access still lagging

Telehealth Broadband Pilot Program



# Telemedicine Technology Trends: Technology Best Practices

## Provider Side

- **Audio Solutions**
  - USB
  - Headsets
- **Video Solutions**
- **Platform Simplicity**



# Video Conferencing Hardware- Video Solutions

- **“Plug and Play” USB devices**
- **Integrated Audio and Video**
- **Active Speaker Tracking**
- **Digital pan in large image**





# Video Conferencing Hardware- Demonstration

- Laptop Audio/Video
- Webcam Audio/Video
- USB Peripheral Audio/Video
- Integrated Audio and Video



# Exam Cameras

- “Plug and Play”/USB
- Multi-Exam or Single Purpose
- Capture and/or stream
- Variable Device Costs



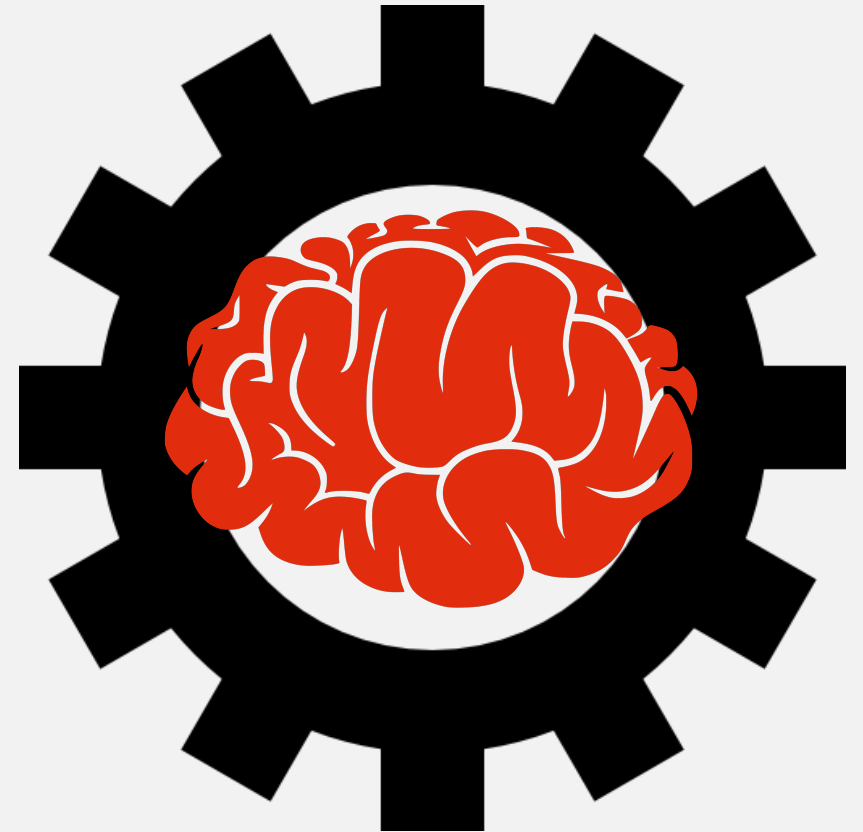
# Exam Cameras: Horus 3 Features

Live Demonstration:  
AMD VersaScope



# Final Thoughts

- Technology should always support the Use Case
- Hands-on is vital
- Obtain Support:
  - Clinical
  - Administrative
  - Technical/IT
- Connectivity/Broadband





# How to have TTAC help you...

1 [www.telehealthtechnology.org](http://www.telehealthtechnology.org)



3 Ask us your technology questions.

# Thank You



Contact Us:

[www.telehealthtechnology.org](http://www.telehealthtechnology.org)

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