

# Telehealth Technology Trends

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

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**Jordan Berg**

Technology Assessment Specialist  
Telehealth Technology Assessment Center  
jjberg@anthc.org



# Who is TTAC?

- TTAC is federally funded through the Office for the Advancement of Telehealth (OAT)
- TTAC provides Technology Assessment services for the 12 regional TRCs as well as the other national TRC.



# What Do We Do?

- Provide presentations at Regional Conferences
- Assess Telemedicine Technologies
- Provide Technical Assistance to Organizations and Individuals



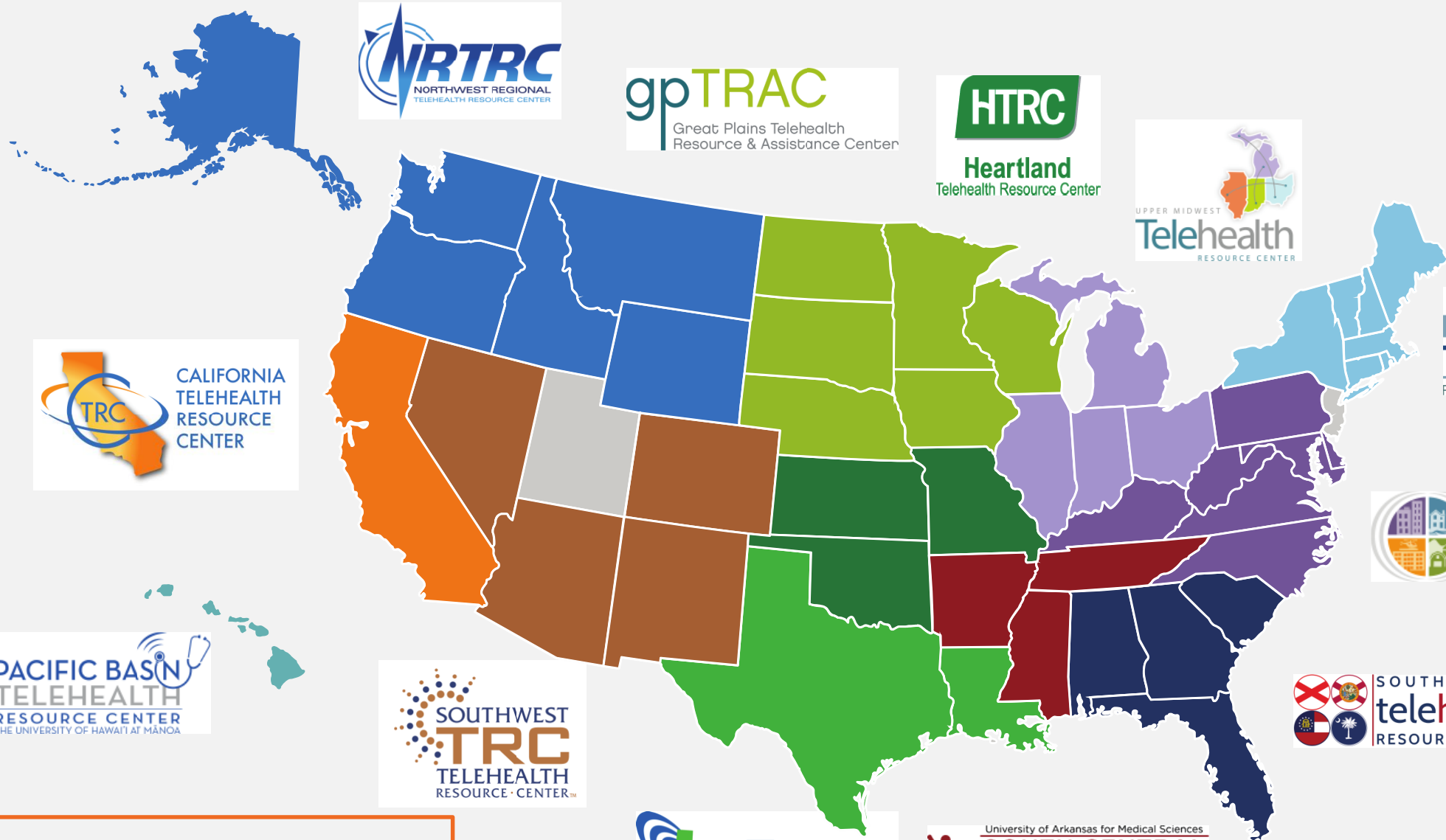
# National Consortium of Telehealth Resource Centers

**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)**







# TTAC Technology Overview

- **General Trends**
  - Care to the Home
  - Beyond Video Platforms
  - Broadband and Rural Connectivity
- **Technology Trends**
  - Audio Solutions
  - Video Peripherals
  - Remote Monitoring
- **Key Thoughts**



# Care to the Home

## Key Considerations:

- **Using what the patient has**
  - Mobile devices
  - Consumer grade peripherals
  - Direct to Consumer
    - Platforms
    - Peripherals
- **Connectivity**
  - Wireless
  - Cellular



# Beyond Video Platforms

- **Normalizing around Video Platforms**
- **Enhancing Telemedicine**
  - Improved Audio/Video
  - Peripherals
    - Stethoscopes
    - Exam Cameras
    - Vital Signs Monitors
  - Remote Monitoring
- **Visit Support and Integration**

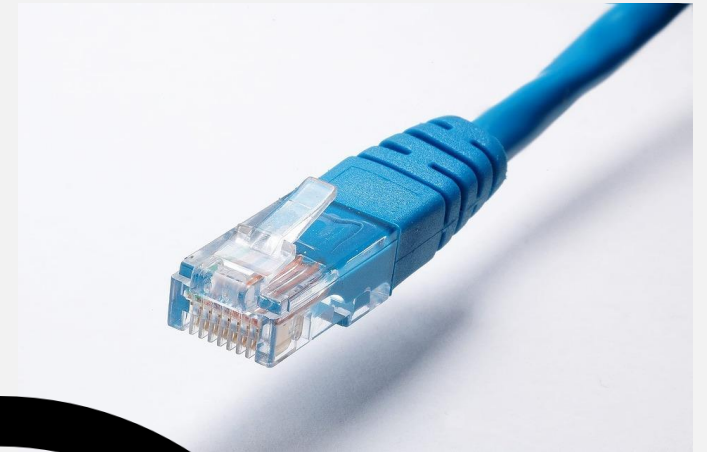




# Broadband and Rural Connectivity

## Broadband and Rural Connectivity:

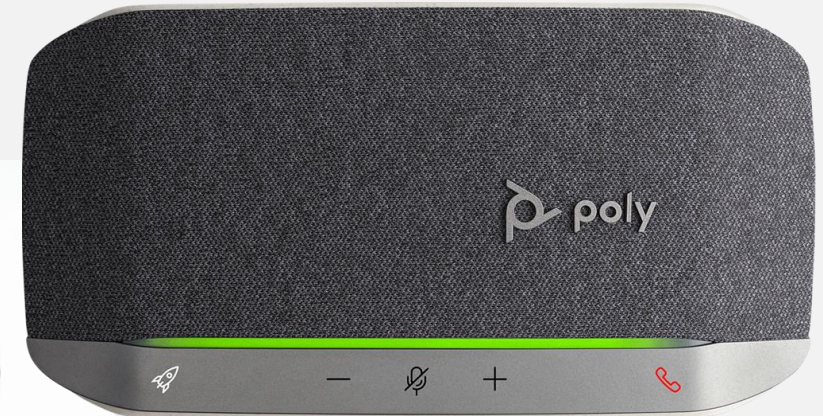
- **\$20B+** Rural Digital Opportunity Fund
- **\$65B** in Infrastructure Investment and Jobs Act
- Emergency Broadband Benefit → Affordable Connectivity
  - Program \$14 Billion
- State Efforts
  - Task Forces, Commissions, or Authorities
    - NCSL
- Barriers:
  - Measurement
  - Infrastructure
  - Access/Price



# Video Conferencing Hardware- Audio Solutions

## Common Audio Solutions:

- **Headsets**
  - USB
  - Wired/Wireless
- **Speaker Pods**
  - Noise Cancelling
  - USB
  - Bluetooth
  - Battery Powered



# Video Conferencing Hardware: Cameras and Audio

- **“Plug and Play” USB devices**
- **“Enhanced” webcams**
- **Integrated Audio and Video**
- **Active Speaker Tracking**
- **Large Digital Sensors**



# Remote Patient Monitoring

- **Peripherals**
  - BP, SP02, Blood Glucose, Weight, Temp (less common)
- **Hub/Device**
  - Bring Your Own Device (BYOD)
  - RPM Kits
  - SIM Connected Devices
- **EHR Integration**
  - Cerner Millennium
  - Epic App Orchard

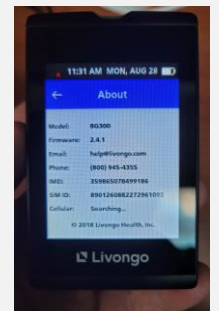


BYOD

Kits

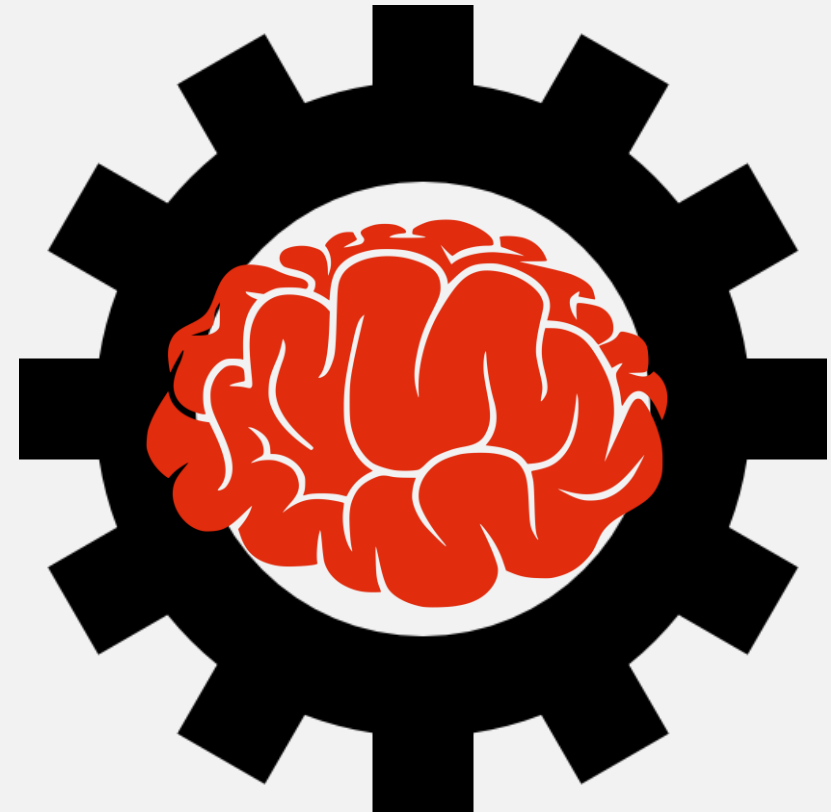


SIM-Connected  
Devices



# Key Thoughts: Telemedicine Technology

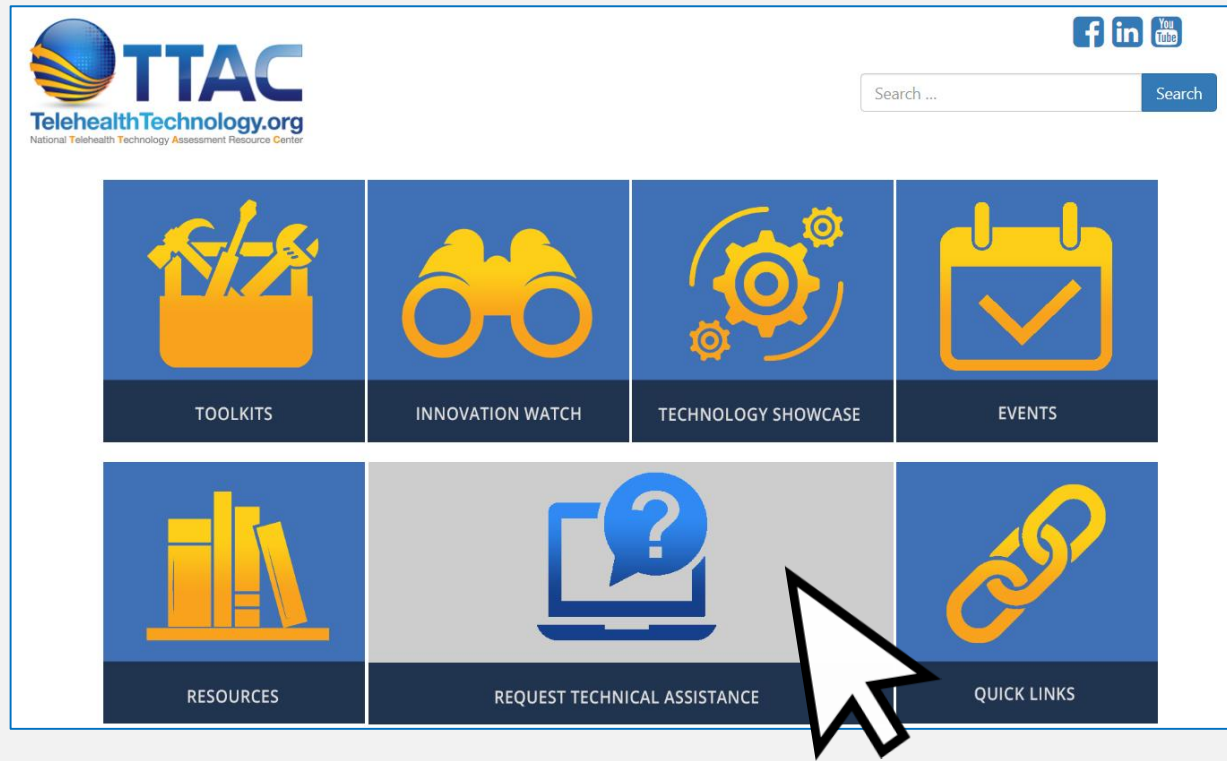
- Technology should always support the Use Case
- Hands-on is vital
- Obtain Support:
  - Clinical
  - Administrative
  - Technical/IT





# 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)

1-844-242-0075