# MONO COUNTY BROADBAND AND TELECOM STATUS



Mono County Board of Supervisors November 2020



## **AGENDA**



## Background

#### Broadband

- Providers
- Status, Future Outlook

## Telephone

- Providers
- Status, Future Outlook

### • Q & A

Next Steps



Along the Information Superhighway



## DIGITAL 395 – THE NETWORK



- \$110m | 620mi. long fiber network Reno <> Barstow
- Petabytes of capacity 25% utilization
- New electronics (\$1.2m) product/capacity growth

- "Our Network" supports a Connected Eastern Sierra
  - Serves G.E.M. facilities & service providers

## Public Safety Grade network

- Hardened against wildfires, earthquake, etc.
- CalTech earthquake / early warning



## DIGITAL 395 - CALIFORNIA BROADBAND COOP

## Structurally Solid

- 501©12 telephone cooperative
- Nine-member Board since 2012



## Financially stable

Positive Going Concern audits; cash reserves

#### Future focused

- Strategic initiatives 3mo. objectives
- Other opportunities?



2013 **\$37.01** 

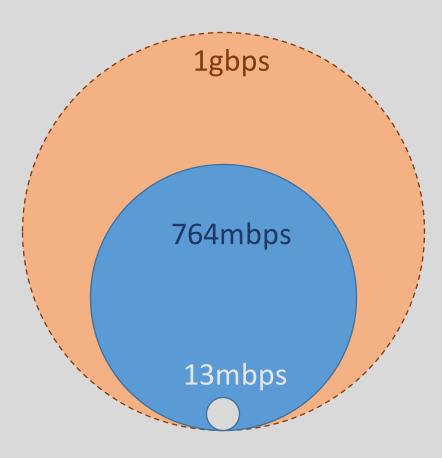
per mbit

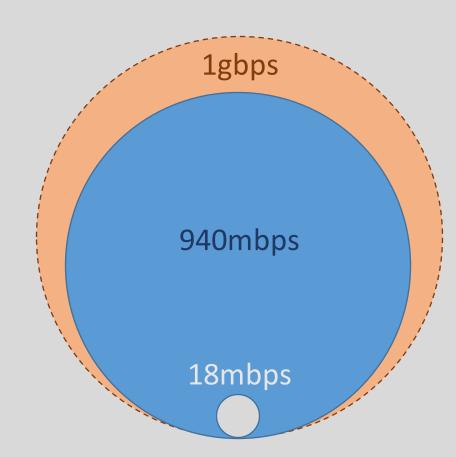
2016



2018

\$.62 per mbit

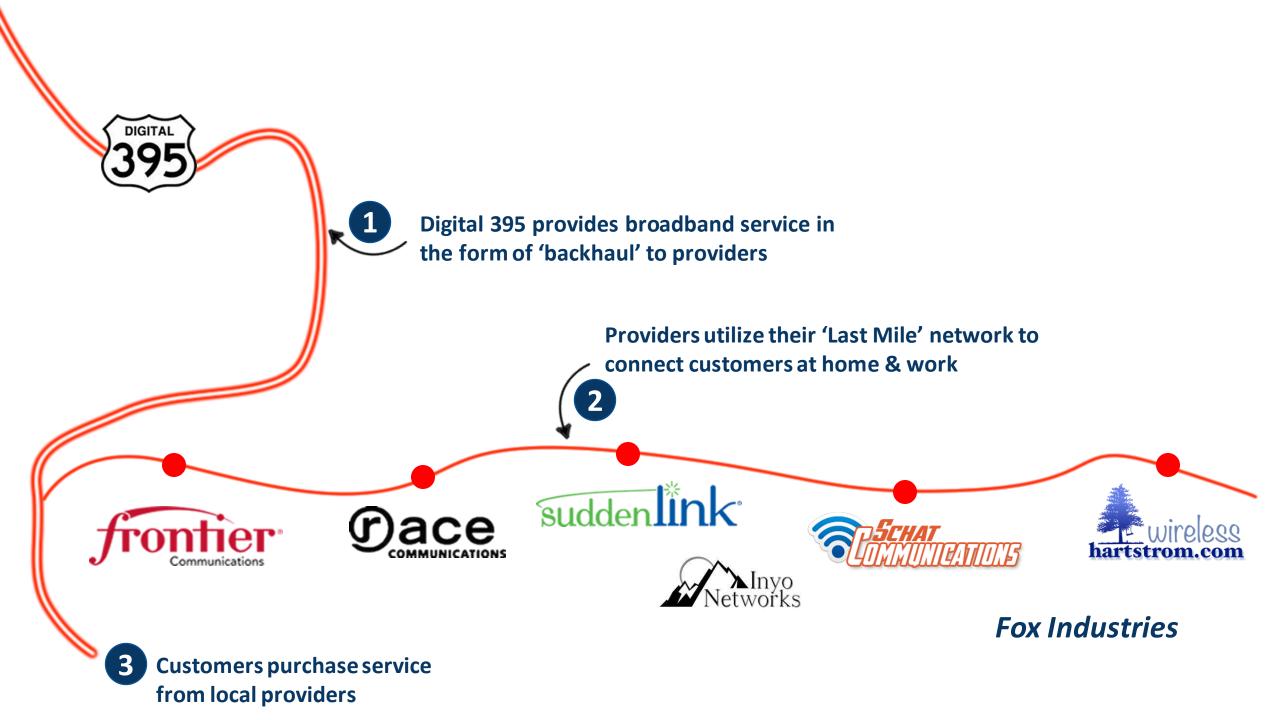


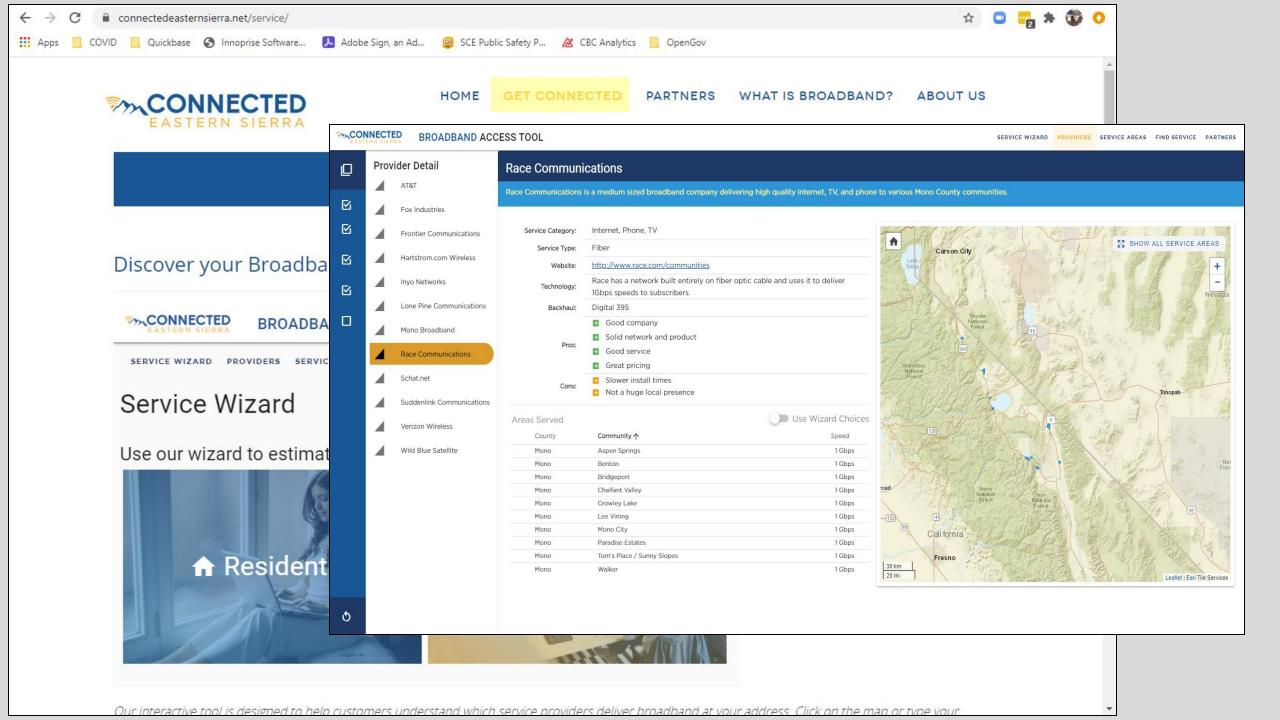


8mbps
1.4mbps
1.5mbps









## INYO NETWORKS



## Commercial sales agent for Digital 395

- Network Performance
  - FttP
  - Speeds up to 10Gbps various products
- Customer Service
  - Solid and responsive
- Future Outlook
  - Continual development in products & locations



## **SUDDENLINK**



- Primary carrier in Mammoth and June
  - Gigabit service (plus TV & phone)

#### Network Performance

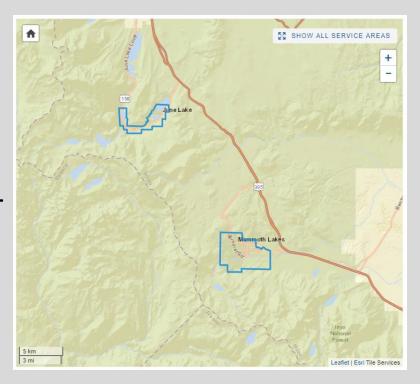
- + 44% downstream / + 38% upstream since March 1
- Maintenance
- Power sustainability challenges

#### Customer Service

Challenges: Call center; No-Shows; OSHA/Smoke

#### Future Outlook

Engagement from senior management / improvement efforts



## RACE COMMUNICATIONS



## Primary carrier in unincorporated Mono

Gigabit service (plus TV & phone)

#### Network Performance

- No significant issues minor outages
- Power resiliency

#### Customer Service

- Generally solid minimal issues
- Low quantity of local techs

#### Future Outlook

Network expansion?



## **SCHAT.NET**



## Secondary carrier in unincorporated Mono

Speeds up to 100mbps

#### Network Performance

- Upgraded mountaintop sites to licensed 1.5Gbps links
- 7d battery capacity

#### Customer Service

Stable & responsive

#### Future Outlook

40Mbps product through tree cover



## HARTSTROM.COM WIRELESS



## Primary carrier in Devil's Gate area

Small geographic footprint

#### Network Performance

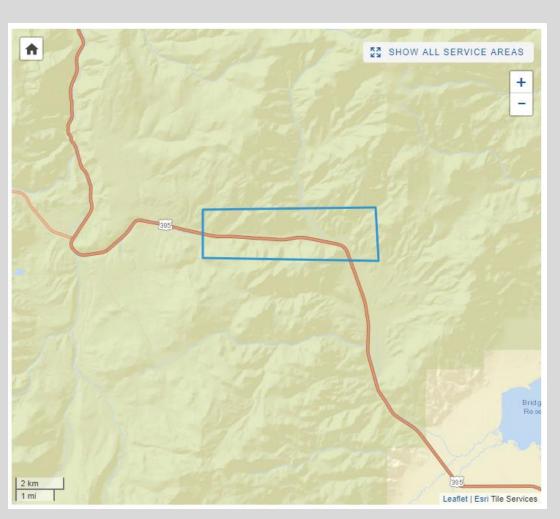
- Speeds up to 25mbps
- Upgraded radios and battery plant

#### Customer Service

Stable, responsive; one-man show

#### Future Outlook

Continued support in area

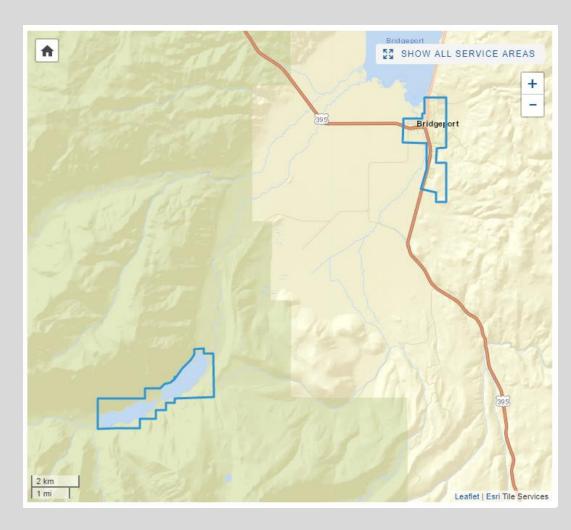


## FOX INDUSTRIES WIRELESS

Secondary carrier in Bridgeport / Primary in Twin Lakes

- Network Performance
  - Speeds up to 25mbps

- Customer Service
  - Small team



## MONO BROADBAND

Secondary carrier in Antelope Valley

- Network Performance
  - Speeds up to 10mbps

- Customer Service
  - Small team



## **VERIZON WIRELESS**

- Dominant wireless carrier in county
  - Cover majority of highway corridor & communities

#### Network Performance

- Combination of 3G, LTE, and 5G
- Public Safety Priority & Pre-Emption
- Use of Digital 395 at some sites

#### Future Outlook

Continued gradual expansion and upgrades

## AT&T WIRELESS

- Secondary cell carrier in county
  - Decent community coverage / In-fill

#### Network Performance

- Power resiliency
- Backhaul

- New site builds: Crowley, Chalfant, Antelope Valley, + +
- FirstNet collaboration

## **FRONTIER**

#### Incumbent Local Exchange Carrier (ILEC)

- Primary "Plain Old Telephone Service" (POTS) carrier
- Deliver Digital Subscriber Line (DSL) internet several communities

#### Customer Service

Has not ever met the Out of Service Standard

#### Network Performance

- Outages 911
- Static & dropped calls
- Minimal Digital 395 adoption

- Two CAF II DSL projects in Bridgeport
- Bankruptcy

## FRONTIER - BANKRUPTCY

## Background

- Acquired CA, FL, TX from Verizon in 2016
- Acknowledged plant investment needs | CAF II monies
- Filed Chapter 11 on April 14, 2020 in NY Federal Court
  - Approval from some states not CA, nor FCC (yet)

## Impact

- Entire holdings WA, OR, ID, MT > Wave Division Capital
- Restructure to reduce remaining debt
- Splitting of fiber and copper??
- Mono County impacts TBD?

## QUESTIONS



