

# ILEC - Greenfield Development Needs

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Ponderosa Telephone

# About Ponderosa Telephone

- EST. 1908
- Regulated Telco
- 6,361 xDSL & Phone + 450 PON + 2,605 POTS = 9,416 subscribers
  - 450 GPON subscribers
- Large rural territory
  - 30 miles southeast of Yosemite National Park
  - 3,000 sq. mi.
  - Sea level to 10,000 ft. elevation

# Plans for Greenfields

- Two upcoming 5,000 home developments
- Large commercial business footprint
- Plan to service with GPON
  - 1:16 or greater power split

# Biggest Needs

- Consolidation
  - Each new CO/Remote cabinet for <20km loops require lengthy United States Forest Service (USFS) and County permits
    - Up to two years to get the permits
- Maintaining a *NO single-point-of-failure* network
  - Redundancy
  - Less emergency truck rolls  
(due to small workforce & large territory)
  - Diverse path to splitter allows for more repair time of broken fibers
- Super-PON seems a great solution

# Current Challenges

- Shortening copper loop lengths to <3k feet, with an ultimate goal of abandoning copper where feasible
- Powering remote sites
- Fixing damaged aerial and buried fiber
- Increasing tier-1 data backhaul

# Goals

- Increase subscriber base
- Compete with CLECs
- Somewhat “future proof” our network
- Create a robust and reliable network
- *To one day be called Super-PONderosa*

Thank you