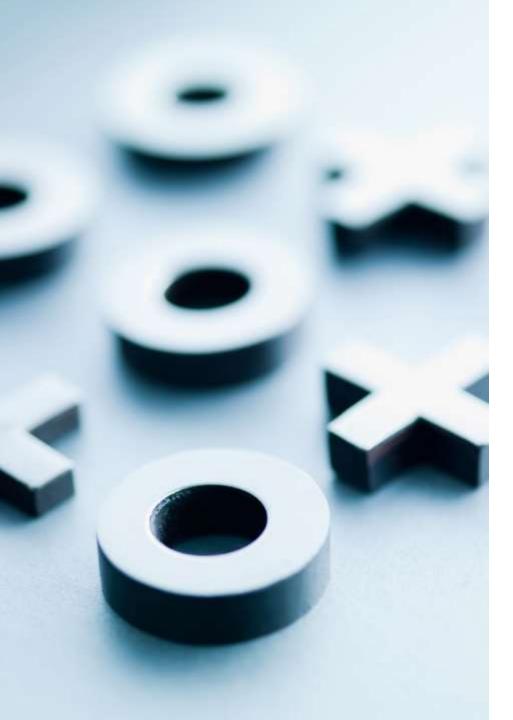
Broadband 101: Funding

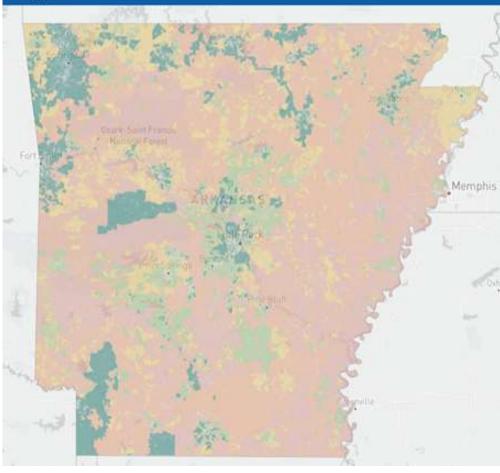
ANDREW COKER
WEST CENTRAL ARKANSAS PDD



Important Concepts

- Speed (download/upload)
- Mbps (megabits per second)
 - 25/3 or 100/100 or 100/20
- Project Footprint (Areas Served)
- Eligibility Maps
- Rurality/Urbanity
- •P3 Partnerships (Public-Private)
- ISP (Internet Service Provider)
- •FTTH (Fiber to the Home)

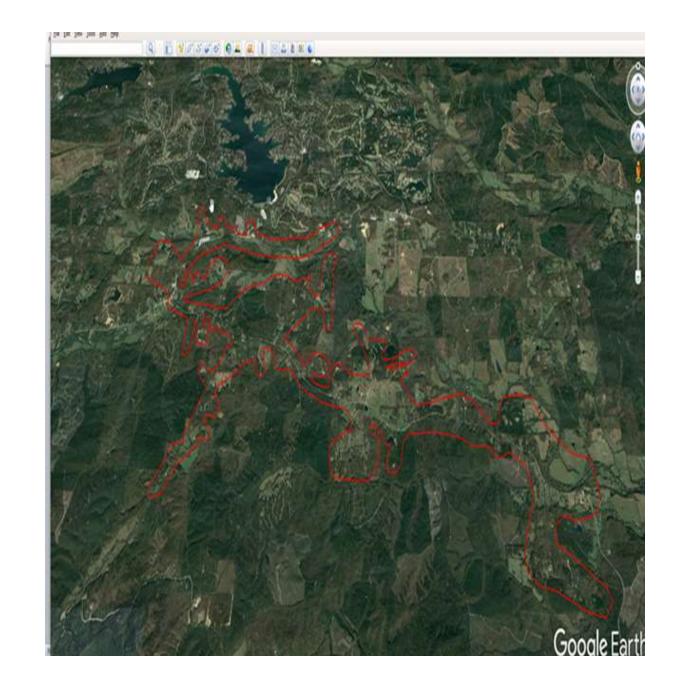




Current Reality

Where to Start?

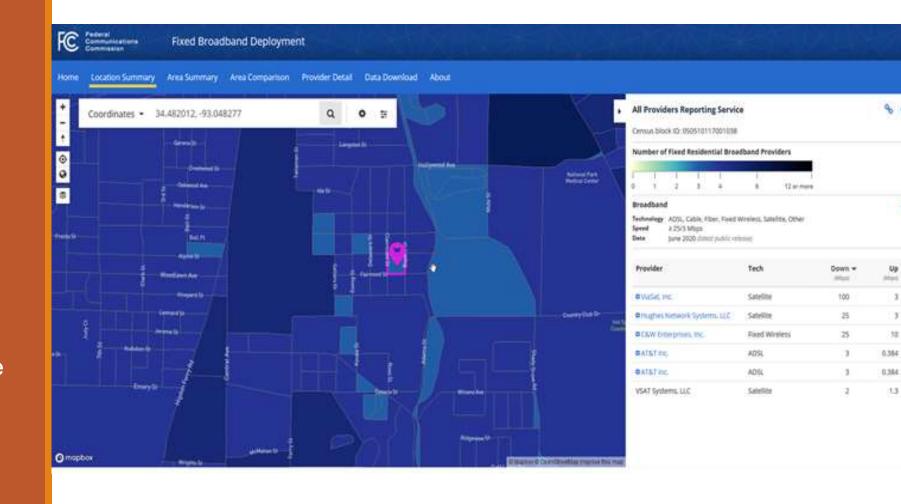
- 1. Map of area
 - "Project Footprint"
 - Work with local partners to determine where expansion is needed
- 2. Work with ISP to ensure the area does not have sufficient coverage or access.



Where to Start?

FCC maps are historically unreliable; however, they can start discussions

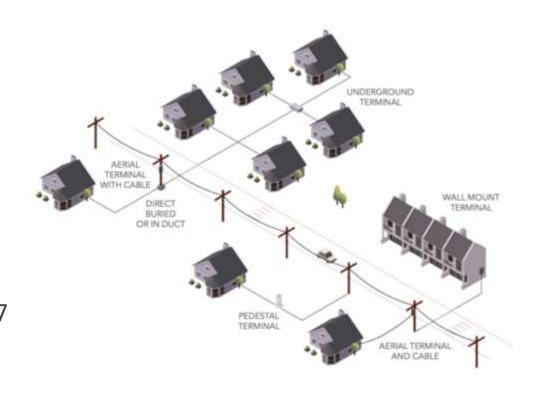
ISPs in your area should have better, more useful maps



Typical Expected Costs

Costs to build FTTH - Rural Areas (Arkansas)

- Average is \$56,029 per mile of FTTH construction
- Average in Rural is 13 homes per mile of construction
- Average cost per home is \$4,081
- Average Cost per Customer at end of 36 months is \$7,407



Source: OFS Optics

American Rescue Plan

- •Broadband is a **confirmed** allowable use.
- •100 mbps ↓/ 100 mbps
 - (implies fiber optic deployment)
- Some allowances for geography/topography/excessive costs
 - Must reach at least 100/20 and be scalable to 100/100
 - Must be designed to address unserved or underserved areas
 - Underserved Area with wireline connection worse than 25/3
 - Unserved Area with no wireline connection (less common)



Grants

Arkansas Rural Connect

- Arkansas State Broadband Office
- ISP or Local Government Entity
- Area must be 25/3 or worse to qualify
- Implementation funds
- Use eligibility map

USDA Rural ReConnect Loan and Grant Program

- ISP or Local Government Entity
- > 50,000 population
- Area must be 10/3 or worse to qualify

University of Arkansas Medical Sciences

- Institute for Digital Health and Innovation
- Local Entity
- Funding for due diligence studies/research support







Grants

FCC Rural Digital Opportunity Fund

- Census block eligibility, check eligibility map.
- Area must be 25/3 or worse to qualify
- ISPs

USDA Rural Community Development Initiatives Grant

- "Strategic Development" can be used to justify broadband feasibility studies
- Any public body under pop. 50,000
- City of Pine Bluff
- Act 67
- Min. award \$50,000 Max. award \$250,000

USDA Community Connect Grant

- ISP, Public bodies, nonprofits, and cooperatives eligible
- Areas must be 10/1 speed or worse to be eligible
- Must be rural
- Construction, acquisition, or leasing of facilities, spectrum, land or buildings used to deploy broadband service
 - Cost of providing service to critical facilities for up to 2 years





Grants

Economic Development Administration (EDA)

- Looking for economic development benefit through broadband
- Telehealth and remote learning access
- •Focus on expansions to industry areas, central business districts, community facilities, schools etc...

National Telecommunications and Information Administration (NTIA)

- "Covered partnerships" ISP and unit of government
- Preferred 100/20 speed and ability to scale with other future expansions (e.g. fiber, 5G, etc...)
- Additional funds coming through Bipartisan Infrastructure Investment Act (BIIA)





Wrap Up

Funds are available and abundant

Public/Private Partnership - Is the ISP reputable, preferably local and financially solvent?

Mapping is **KEY**

FTTH is new preferred build and scalable for future.

Pandemic-induced challenges

- Supply Chain Breakdowns
- Inflationary pressures with Labor and Material
- Labor Shortages of Construction Crews
- Projects take about 40% longer than prior to the pandemic.
- Deep Rural Areas add Substantial Costs

