

Fiber Optic Partnerships

WAPA-wide customer meeting

Aug. 29, 2019 | Lakewood, CO

WAPA Emcee: Kirsten McClure



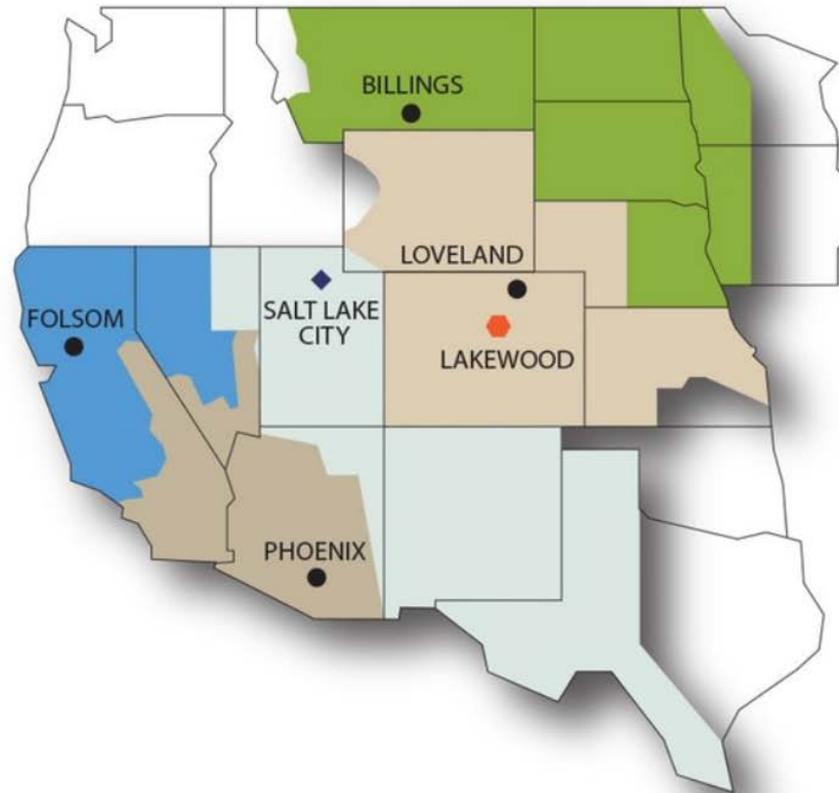
Welcome

Kirsten McClure
Fiber Optic Feasibility Assessment
Project Manager

Meeting overview

- Value of fiber assessment
- Current state of WAPA's fiber
- Customer input
- Next steps

Hello! Where are you joining us from today?



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Total Results



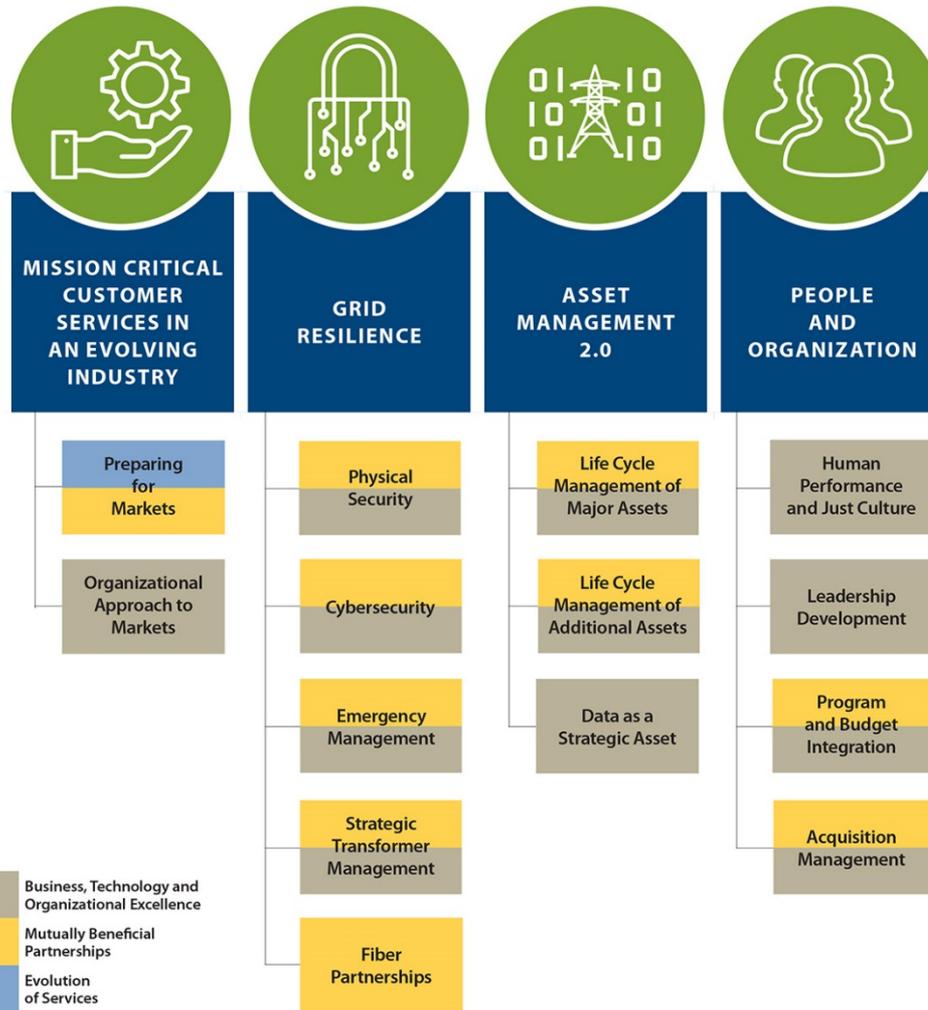
Value of Fiber Assessment

Mark A. Gabriel
Administrator and CEO

Strategic Roadmap 2024



Tactical Action Plan



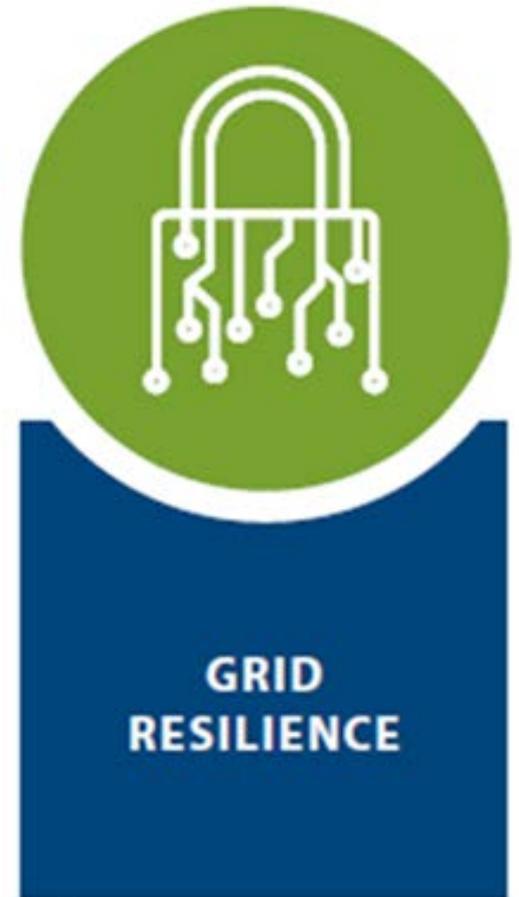
American Broadband Initiative

“...will complete a feasibility assessment ... to determine if WAPA and SWPA excess fiber can be leased to their customers and broadband service providers... [by December 2019]”



Our goals

- Improved capabilities for utility operations
- Protect customers' investments
- Support customer needs for expanded services

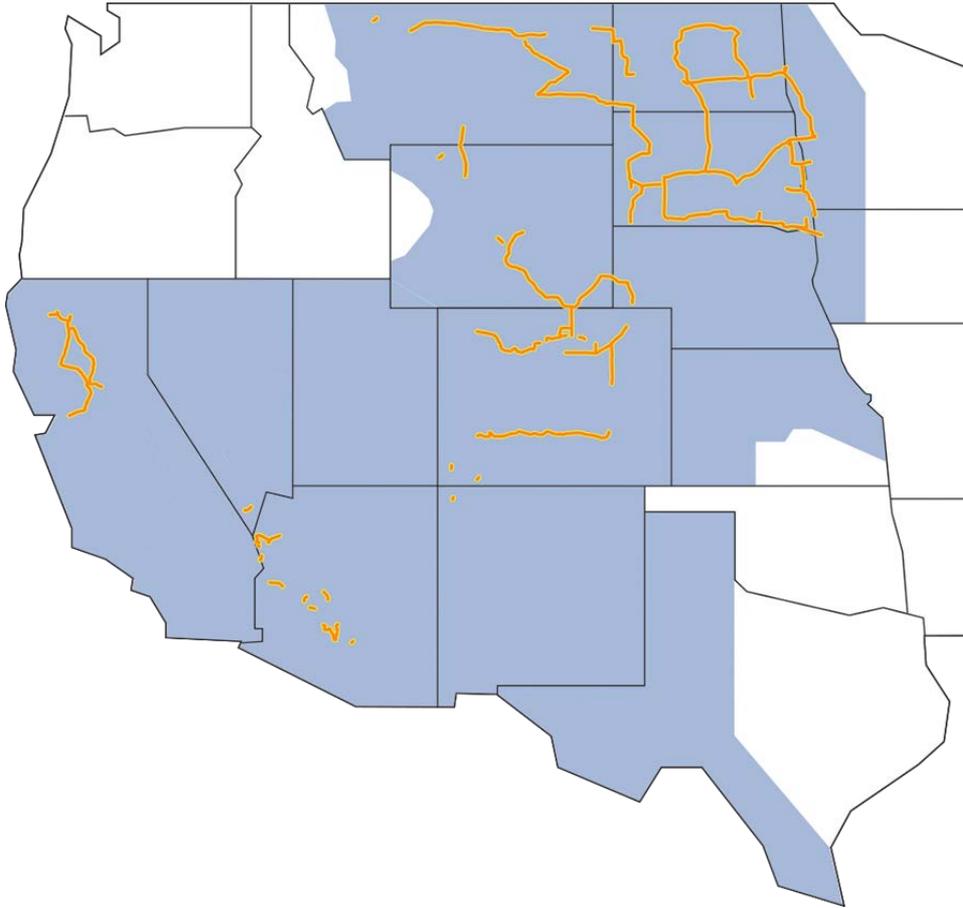




Current state of WAPA's Fiber

Kevin Hogg
WAPA RM Lead
Telecommunications Engineer

WAPA-owned fiber optic lines



*Note: This map only shows the WAPA-owned part of the fiber optic network. Other neighboring entities, not shown here, operate and maintain their portion of the fiber optic network. Fiber route buildout is based primarily on planned maintenance and replacements to minimize cost.

WAPA fiber & partnerships for grid resilience



Mutually Beneficial Partnerships

- *Over 20 years of utility fiber planning, installation and maintenance*
- *Installed more than 5,000 miles of fiber across WAPA*
- *Partnerships crafted for mutual benefit*
- *Agreements reflect specific project & regional needs*
- *Opportunity: WAPA-wide best practices*

Optical Ground Wire (OPGW)



Fiber Optic Partnerships Overview



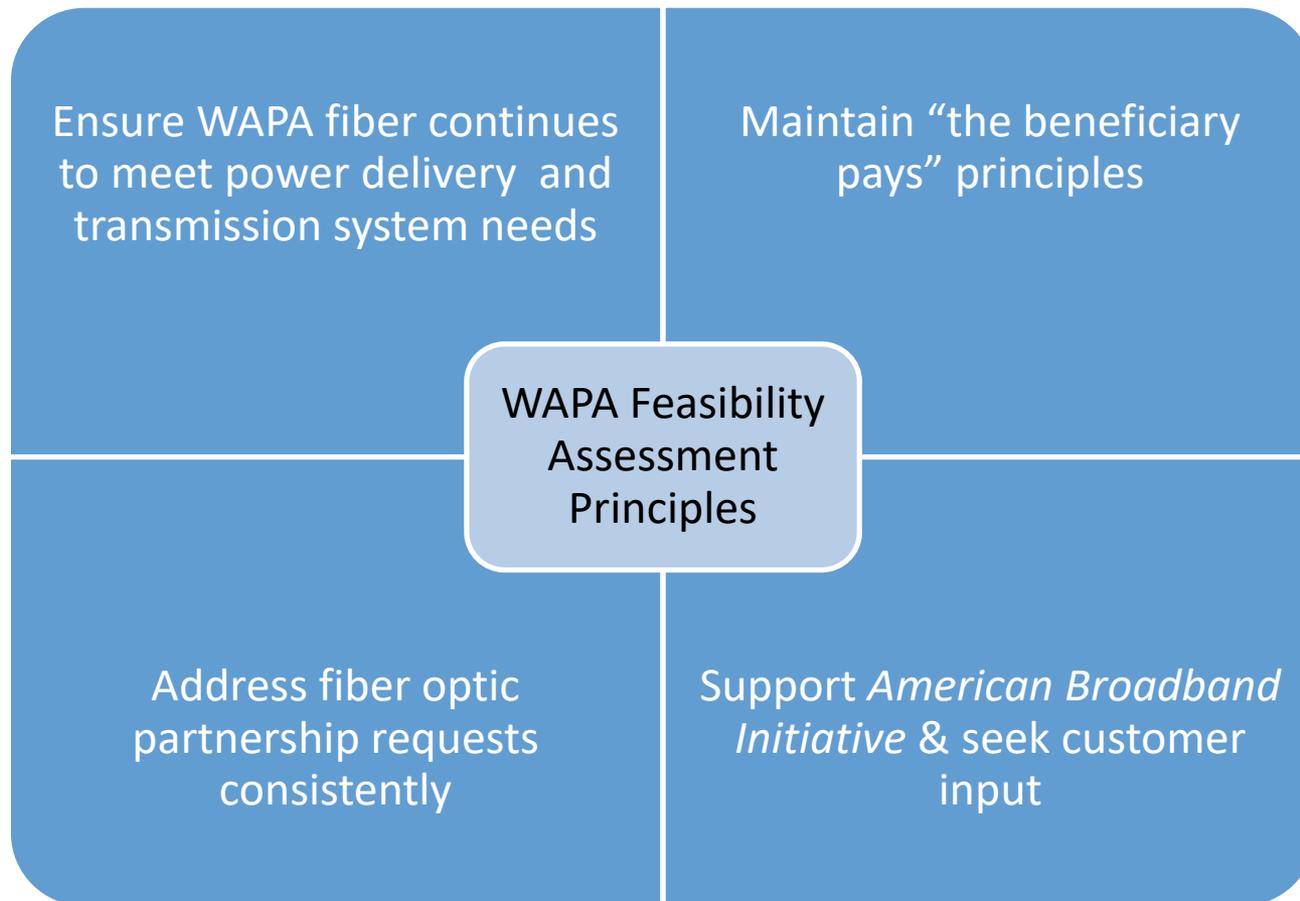


Fiber Partnerships

Mutually Beneficial Partnerships

- Explore additional opportunities to use WAPA's fiber assets.
- *WAPA will explore leveraging its fiber assets to:*
 - *Improve its communication capacity to support current and future technologies.*
 - *Improve support to customers.*
 - *Support grid resilience with the Departments of Energy and Defense.*
 - *Support the Presidential Broadband Initiative.*

Fiber Optic Partnerships Feasibility Assessment



Feasibility Assessment Elements



Fiber Optic Partnerships Timeline

Fiber Working Group
May 2019

Compile Outreach Data
October/November 2019



Assessment Plan

April 2019



WAPA-wide & Regional
Customer Meetings

June/September 2019



Final Assessment
Report

December 2019

Today: Aug. 29
WAPA-wide discussion
in Lakewood, CO



Your turn: Customer Input

Facilitators:
Brent Osiek and Leah Shapiro

Fiber Optic Partnership Customer Input

Interest and opportunities for new partnerships

- Could aid connectivity to rural areas
- Partnerships on new lines and installations
- Increase redundancy and resiliency of existing networks
- Enable cost-sharing and partnerships on tribal lands
- Additional fiber build-out could also support wireless deployment
- May make communication services more accessible



Interest in future fiber partnerships: What opportunities come to mind for future fiber partnerships with WAPA?

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Fiber Optic Partnership

Customer Input

Customers' priorities and/or goals for fiber partnership

What is a "win" for a new partnership from the Customer view?

- Ensure that any effort does not impact delivery of power
- Maintain existing relationships and fiber partnerships
- Follow beneficiary pays principles
- Should benefit WAPA's mission and operations
- No impact to existing fiber use or fiber partnerships
- Opportunity to inventory existing partnerships



Thinking about future fiber partnerships with WAPA, what are your utility's goals/priorities?



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Fiber Optic Partnership Customer Input

Challenges and concerns with new partnerships

- Authority to enter into fiber partnerships or expansion
- Existing right-of-way contracts
- Physical and logical access and security for systems and equipment
- Determining cost allocation between users



**Thinking about future Fiber partnerships,
what challenges or concerns do you see?**

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Feasibility Assessment Elements



Fiber Optic Partnership Customer Input

Gaps in feasibility assessment elements

- Service level agreements
- How can partners with common interests come together
- How will WAPA coordinate increased use of its fiber
- Should address how access guidance will be developed
- Need to characterize the existing fiber network



What is missing? Is there a gap in the elements we are assessing?



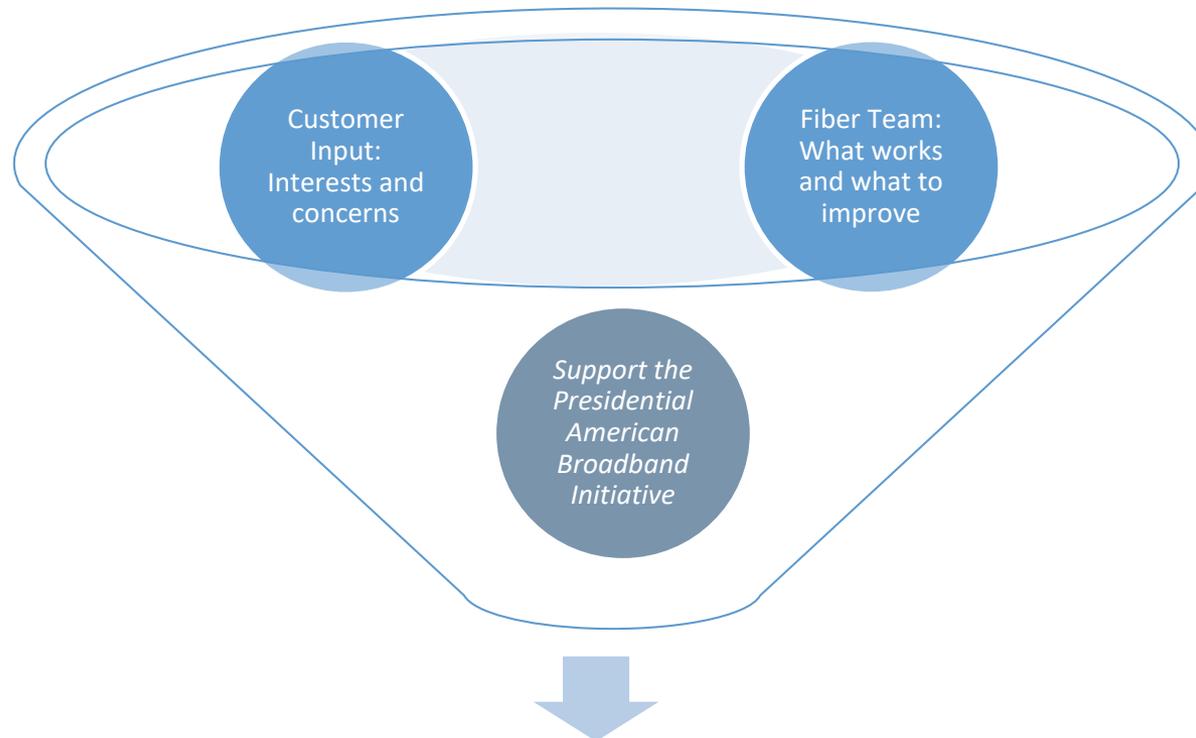
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Next Steps

Kevin Howard
WAPA Executive VP and COO

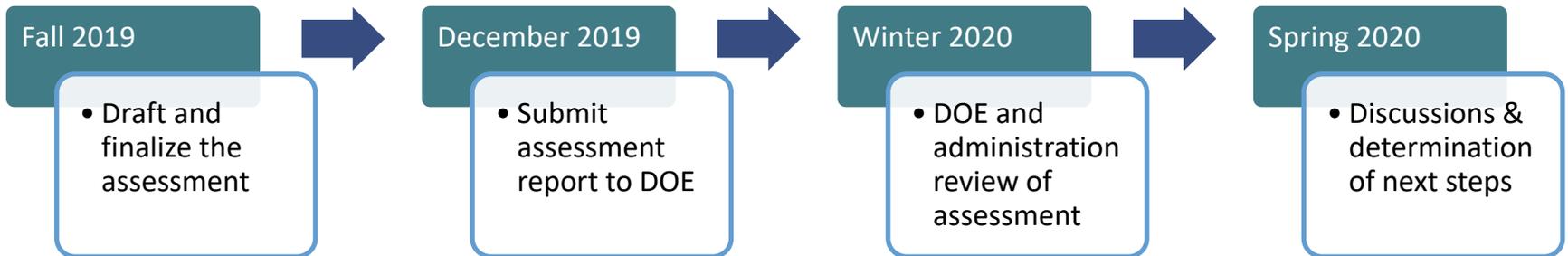
Fiber Optic Assessment Next Steps



Increase WAPA's fiber communication capacity & improve support to customers

Fiber Optic Partnerships

Next Steps



Fiber Optic Partnership Customer Information

- Project information
 - <https://www.wapa.gov/About/keytopics/Pages/fiber-feasibility-assessment.aspx>
- Send additional input
 - FiberOpticPartnerships@WAPA.GOV
- Contacts
 - Senior Sponsor: **Kevin Howard**, Executive VP and Chief Operating Officer
 - Project Manager: **Kirsten McClure**, Public Utilities Specialist

Contact

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