What is JeffcoNet?
A fiber network built by Jeffco Schools to provide cost effective internet access to all staff and students at our district locations

● Fiber is a long term investment - projected to last 50 years
● Funds spent with CenturyLink over the past 10 years could have paid for the network
● Collaboration with Cities and Anchor Institutes drives down the cost to build
Capacity for Jeffco’s 1-1 Deployment

JeffcoNet is part of a three phase plan to enable 1-1 computing for all students

- Phase I - Classroom Wireless and Routing (Complete)
- Phase II - Internet Access (Front Range GigaPop FRGP - Complete)
- Phase III - School Links (JeffcoNet)
**Cost Data, Next 5 Yrs (from Cabinet decision doc)**

Costing Data for the Utility versus JeffcoNet spread over next 5 years:

<table>
<thead>
<tr>
<th>Fiscal Yr</th>
<th>Actual Gb</th>
<th>Actual Cost</th>
<th>Century Link (Insufficient capacity)</th>
<th>CenturyLink (Increased capacity)</th>
<th>JeffcoNet (Fully sufficient capacity)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gb</td>
<td>Estimated Annual</td>
<td>Cumulative</td>
<td>O&amp;M</td>
<td>Upgrades</td>
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<tr>
<td>2024</td>
<td>2</td>
<td>$1,200,000</td>
<td>10</td>
<td>$8,134,258*</td>
<td>$10</td>
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<tr>
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<td>$40,671,290*</td>
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</tbody>
</table>

*Will not incur cost if JeffcoNet is completed

*2019 Quote Est

Source: Consortium of School Network (CoSN) bandwidth projections
Henkles & McCoy
Bid Award 2019

- 205 Route Miles
- 1,082,400 Route Ft
- $36 Million Project
Partnerships

- Adams 12 Five Star School District
- CDOT
- Jefferson County Emergency Communications Authority
- Jefferson County Sheriff's
- Jefferson County IT
- Jefferson County Libraries
- Arvada Fire Protection
- Fairmount Fire Protection
- WestMetro Fire Protection

- City of Arvada
- City of Edgewater
- City of Golden
- City of Lakewood
- City of Westminster
- City of Wheat Ridge
- Colorado Schools Mines
- NREL
Partnerships Con’t

Memberships

- FRGP  Front Range GigaPop
- BiSON  Bi-State Optical Network
- AFON  Arvada Fiber Network
- JFON  JCECA’s Fiber Network along Light Rail
- CCUA  Colorado Communication and Utilities Alliance
GRANTS Awarded or Considered

- **State’s Building Excellent Schools Today (BEST) - 2019 award**
  - 80 Schools located in the Front Range
  - All builds are complete
  - Work begins building in city Right of Way

- **DOLA**
  - Meetings with DOLA Mountain Representatives:
    - Clay Brown DOLA Regional Manager, Nate Walowitz, DOLA Broadband Expert
  - Exploring how to get community engaged in the initiative

- **Other Grants being investigated**
  - FDA Grant
  - American Rescue Plan
  - ESSER III
  - FCC: Emergency Connectivity Fund
  - eRate
  - FDA Grants; Rural Utility Services
  - NTIA
Collaboration

- 4-Way Conduit Future Proofs Investment

- City of Arvada
  - Member of Arvada Fiber Network (AFON)
  - Fiber pair provision from city fiber ring
  - Huge cost savings
  - Joint builds using 4-Way Conduit

- City of Golden
  - Joint build on Ford Street
  - Provides East Side of City Ring for Golden
  - Golden Pays ¼ cost of build
Community Benefit Continued

- **WestMetro Fire Protection**
  - In conjunction with the Jefferson County Emergency Communications Authority (JCECA) are working with JeffcoNet to connect 17 Fire District Stations

- **Jeffcom911 Emergency Dispatch Centers**
  - Constructing redundant ring using additional fiber installed as JeffcoNet is built. In trade, JeffcoNet will utilize existing conduit placed by JCECA for additional project cost savings

- **Student and Public Safety** are enhanced with the JeffcoNet connection
  - School Resource Officers on a secured network
  - City Police and Sheriffs receive better access to Jeffco security cameras
TDPAC’s Role with JeffcoNet

- What experiences and data points do you have to share that are similar to this project?
- What vantage point should the community have of this project?
- How can you help with community outreach and helping to educate our Board given your expertise in this area?
- How often does this committee want updates on this project?