

COUNTY OF EL DORADO BROADBAND WORKSHOP

VALLEY VISION



Connect. Partner. Impact.

Valley Vision

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Overview



- Valley Vision's role
- The value of broadband planning
- The Yolo County experience
- Broadband Resources and Models

Valley Vision



- ❑ Regional nonprofit civic leadership organization serving primarily the six-county Sacramento region
- ❑ Projects include: Next Economy regional prosperity strategy, regional food and ag system, workforce initiatives, community health needs assessments, broadband
- ❑ Manages the Connected Capital Area Broadband Consortium (CCABC) for Sacramento, Sutter, Yolo and Yuba counties

CCABC Focus



- ❑ Collaboration with local, regional, state and federal partners
- ❑ Technical assistance to local partners
- ❑ Communications on best practices, resources, policies
- ❑ Partnership with California Emerging Technology Fund: School to Home, AgTech Pilot
- ❑ Provides a voice for the issue and the region

Why Is Broadband Important?

- Economic Development
- Commerce
- Agriculture
- Schools/Homework
- Adult Education & Training
- Digital Literacy & Equity
- Healthcare
- Public Safety
- Government Services
- Entertainment
- Telecommuting

Benefits of Broadband Planning

- Documentation of priority issues and infrastructure gaps and assets
- Data on both households and businesses
- Identification of resources and needed policy changes
- Platform to educate policymakers and funders
- The roadmap to mobilize leadership and stakeholders for action

Yolo Broadband Strategic Plan

- Initial need identified through CCABC planning process
- Yolo Leaders Forum took on issue in 2013
- Yolo County LAFCo – project manager under shared services
- “Planning for Next-Generation Broadband” for four cities and the county

Dial-Up – 56Kbps

- Legacy technology
- Shared Technology

ADSL – 10Meg

- First Generation of DSL
- Shared Technology

ADSL2 – 24Meg

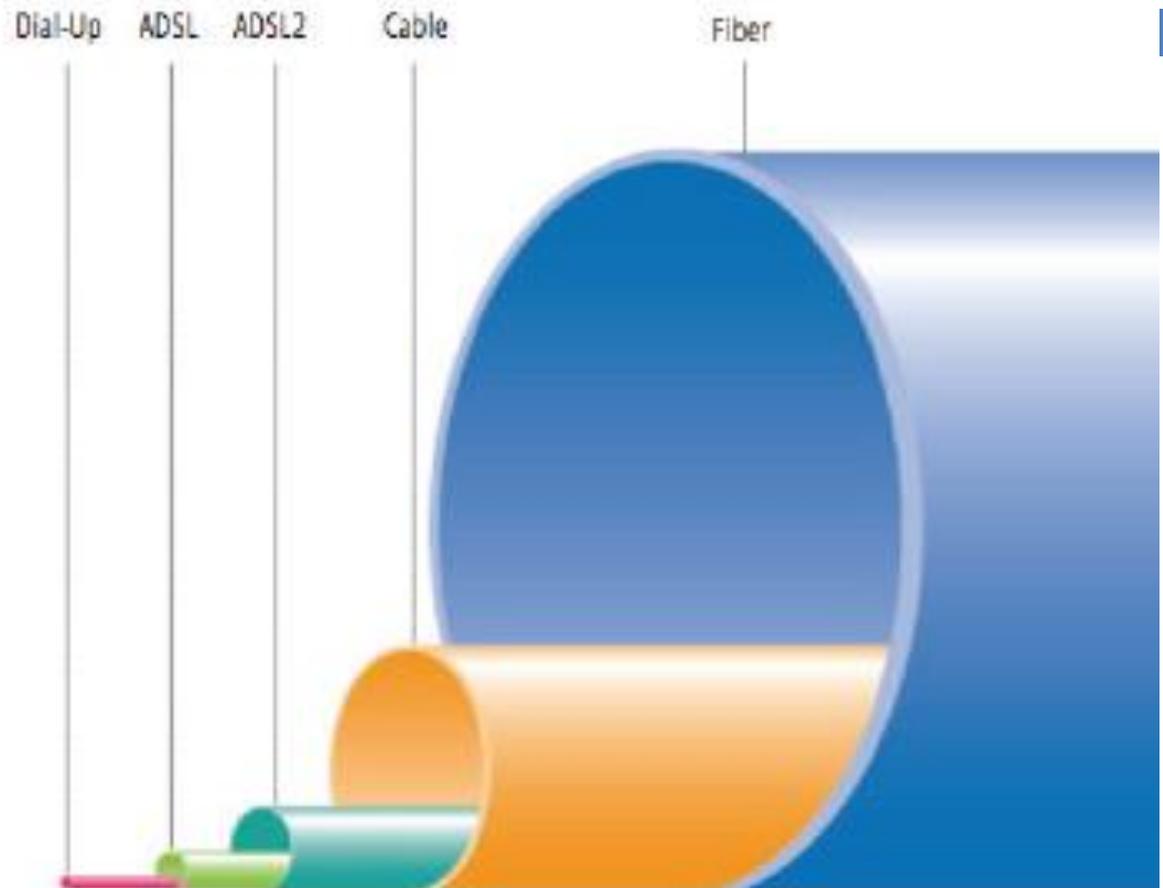
- Second Generation DSL
- Shared Technology

Cable – 150Meg

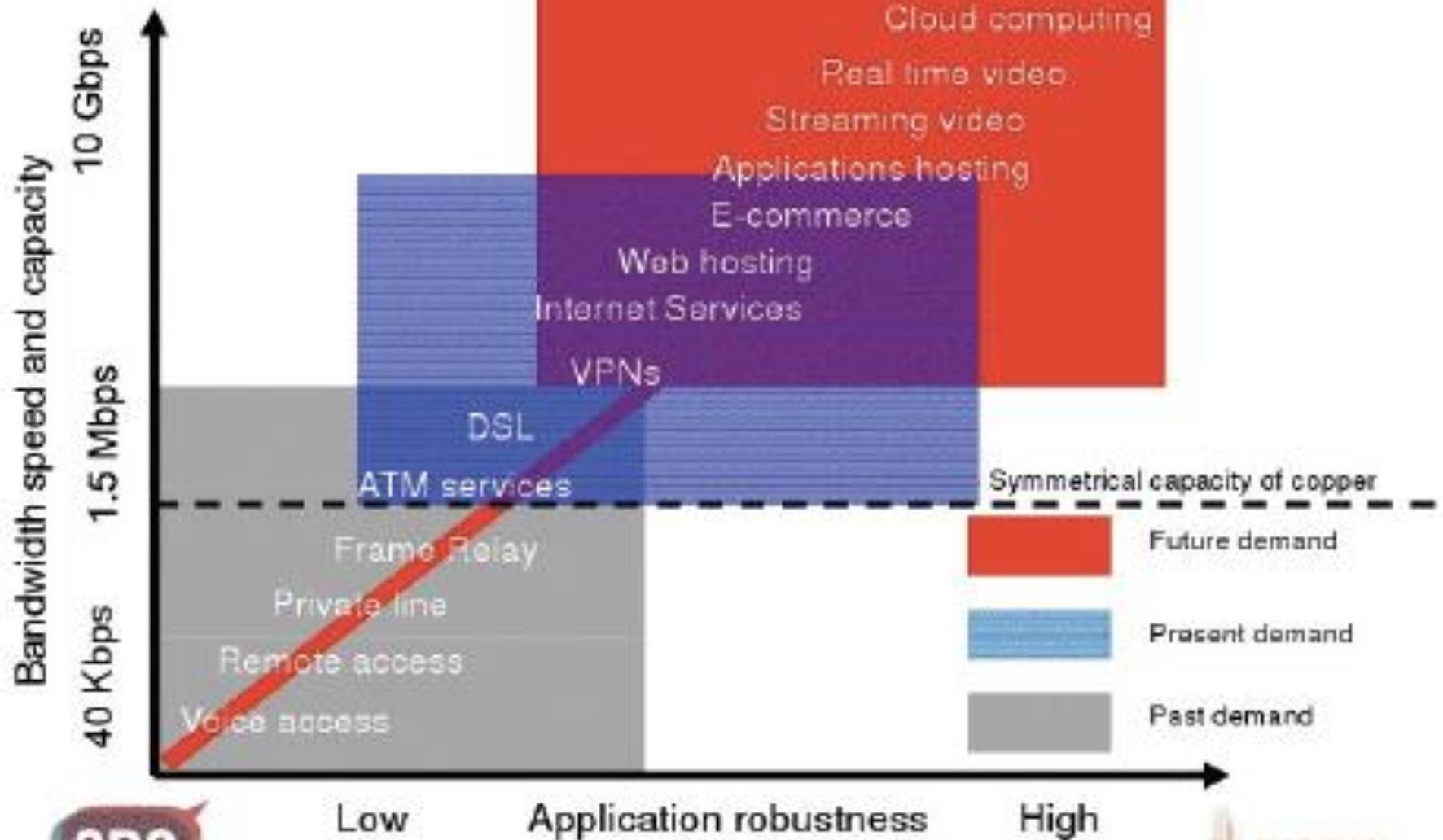
- DOCSIS 3.0
- Shared Technology

Fiber – 1Gbps

- PON, Active Ethernet
- Shared and
- Dedicated Technology



Users' Applications Demand Growth



Yolo Broadband Strategic Plan

Catalysts

- ❑ Lack of market competition driving investment in Yolo
- ❑ **Missed opportunities** (2012 CENIC build through Yolo, Woodland-Davis Water Project, ARRA grant, etc.)
- ❑ Needed collective focus
- ❑ Partners for grant funding
- ❑ Frustration re: CPUC Broadband Availability Maps
- ❑ Collaboration to bring attention to local issues
- ❑ Economic Development imperative – both urban and high tech agriculture

Strategic Plan Goals

- Identify broadband gaps
- Educate the community on broadband
- Positively affect broadband infrastructure and services
- Identify key short, mid and long-term initiatives
- Unified technology polices
- Identify key strategic broadband investments

Yolo Broadband Strategic Plan Process



- Hired consultant via RFP process (\$42,600)
- Took approx. 1 year + a lot of staff time
- Conducted surveys/speed test data
- Stakeholder Engagement
- Action plan for each city and unincorporated communities

Strategic Plan Tasks

- Community Profiles (i.e. Davis, West Sacramento, Winters, Woodland, and unincorporated areas of Yolo County):
 - Inventory of Existing Broadband Assets
 - Needs Assessment – identify Broadband Gaps
 - Identify Broadband Demand – goals for economic development, agriculture, social justice, etc.
- Validate/Correct CPUC Coverage Map
- Outline and Prioritize Community Strategies including “middle mile” and “last mile” access
- Action Plan and Resources – a “road map” for each community’s next steps for planning, funding, grants

Plan Findings

- 1,000+ speed test survey results
- Residential - half of survey results indicate underserved where availability maps show served (includes cities)
- Businesses - larger businesses can pay to get service they need, but small to medium just make due **YET SMALL TO MEDIUM BUSINESSES CREATE 5X MORE JOBS**
- Disparity in service – even in cities **THIS IS NOT JUST A RURAL ISSUE**
- Agriculture industry reports broadband is #1 need

Figure 7.2: Residential Wireline Broadband Availability By Speed (Download Speeds)

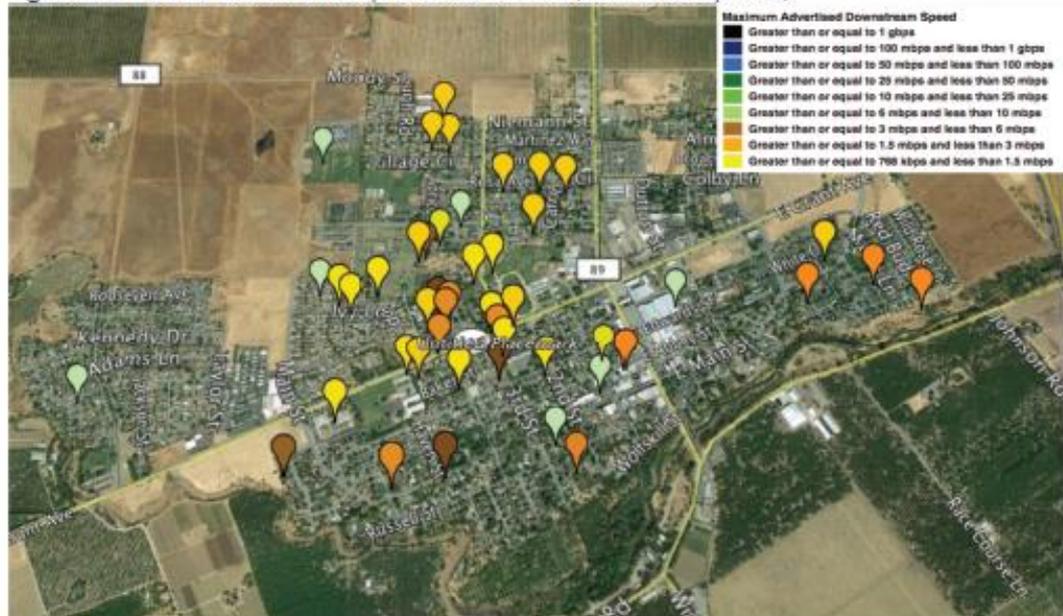


Broadband Speed in City of Winters



What providers report

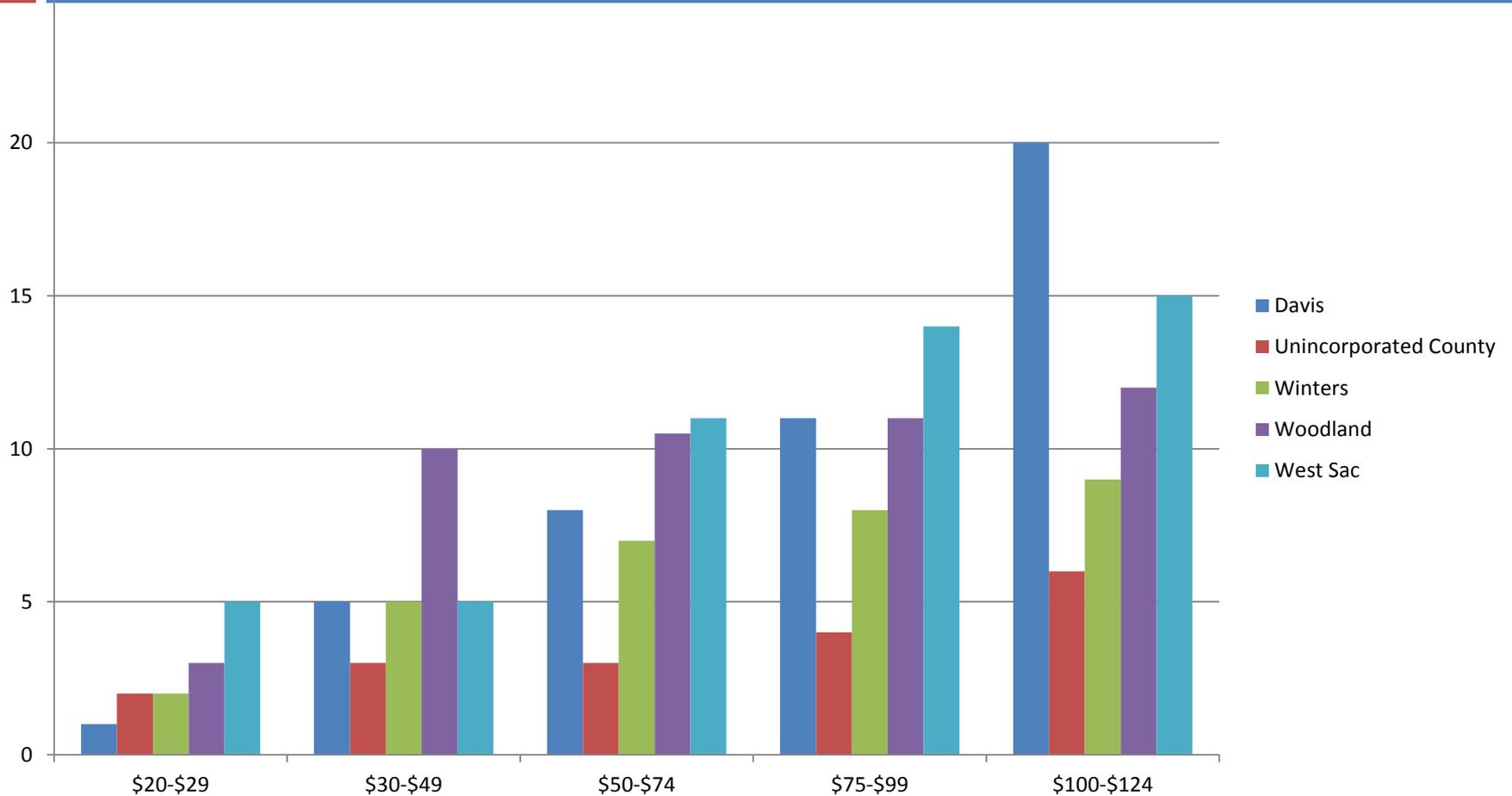
Figure 7.3: Residential Wireline Speed Test Results (Download Speeds)



Actual speed tests

Monthly Cost Versus Speeds (in Mbps) Reported

25



Process Challenges

- Be realistic about baseline data
(providers won't give you anything)
- It's hard to get internet speed test data from people without internet access
(duh)
- Ability for agencies to make change is still limited
(where's the \$\$\$?)
- CPUC Mapping –
(CPUC staff is great about checking data sets, but what happens in the next cycle? We can't keep up)

Challenges (cont.)

In Local Gov't Nobody "Owns" This Stuff

- Broadband doesn't belong to any one department (part econ devt, IT, planning, PW, even our County Librarian)
- We know where our roads, water/sewer lines are, etc, BUT
- We don't know where broadband infrastructure is - and you can't get the info
- Cultural shift – agencies need to think of broadband as essential piece of infrastructure (just like water, sewer and electricity)
- Find a place in your organization to own it!

Positive Outcomes

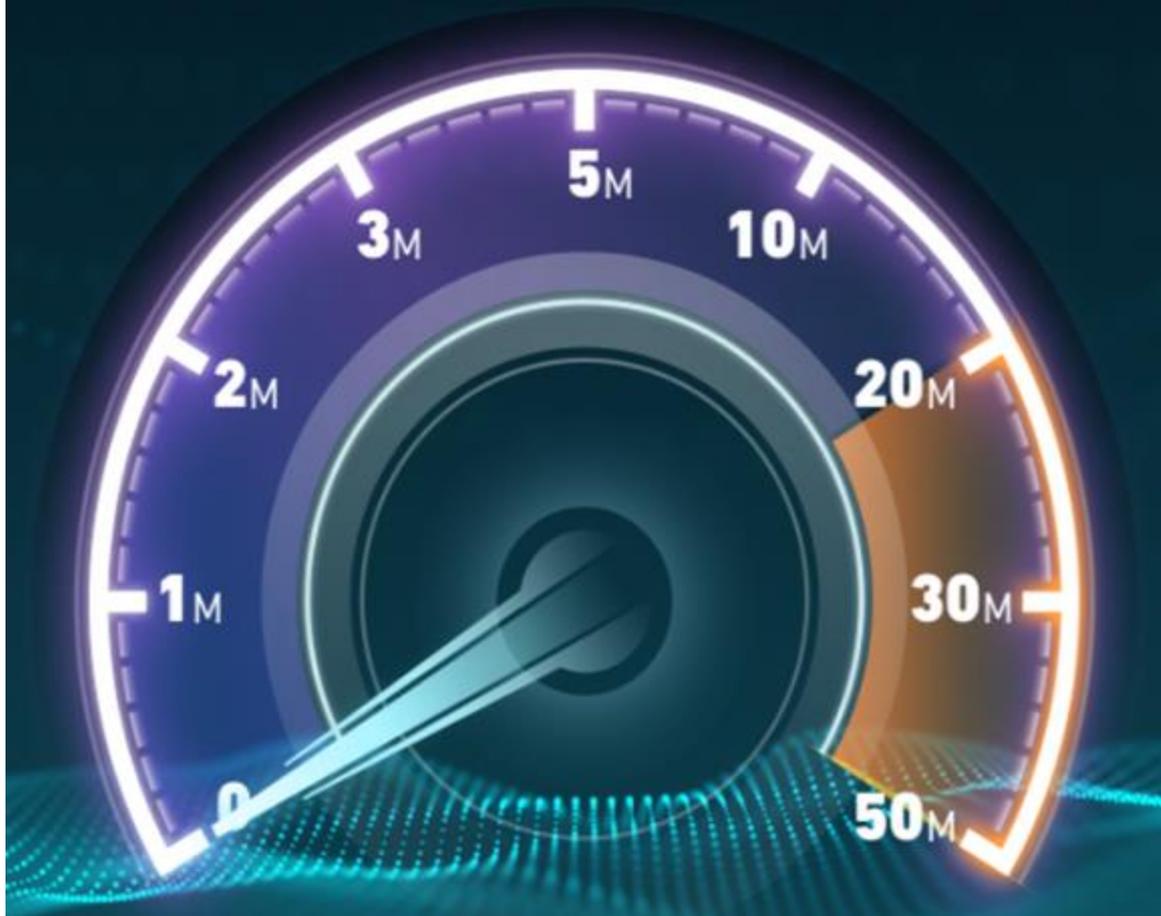
- Broadband has become a council/BOS priority issue
- Staff awareness - cultural shift to plan for broadband as essential public infrastructure
- Agencies will adopt broadband policies into their General Plans to create framework (i.e. install conduit with public and private projects, dig once, open trench, engineering standards, etc.)
- Advocacy and funding
- State/investor attention to Yolo
- LAFCo continuing role to support agencies' next steps and continue coordination meetings

PING
20 ms

DOWNLOAD
104.81 Mbps

UPLOAD
12.02 Mbps

 **SHARE**



**FCC now defines
“Broadband” as:**

- **>25 mbps
download**
- **>3 mbps
upload**

Innovative Approach

- Lit San Leandro – partnership with City and OSISoft, one of largest employers
- City – license agreement to allow installation of fiber loop using City’s existing conduit
- Got \$2.1 million EDA grant to expand fiber network
- City will receive approximately 10% of fiber capacity

Resources

- Counties with good policies and ordinances – Humboldt, Santa Cruz, Mono, CETF Resource Guide
- FirstNet – federal public safety network
- Next Century Cities – tools and support

<http://nextcenturycities.org/about-ncc/>

QUESTIONS AND COMMENTS

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Contact us: 916-325-1630