What is Broadband?

- Broadband, simply put, is internet access that is either provided by a wireline or wireless network.

- The most cost effective type of service depends on development density:
  - For compact communities, we should focus on wireline service.
  - Wireless is extremely important in outlying areas.
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
Why Is Broadband Important?

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

• Older copper infrastructure is pushing its limits – cable & DSL services

• Not enough market competition/service options are limited – duopoly market, 2 options max

• Service is expensive for what business and residents get

• Access to robust fiber has become essential to business operations – its lack is a significant business constraint

• Tech transfer from university limited, startups can’t get the services they need
* Although Davis may achieve 20 Mbps, 25 Mbps is new FCC baseline to be considered “broadband”
Davis Survey Findings

- 30% of residents and 39% of businesses say service is “unreliable”
- 60% of residents and 62% of businesses say service is “not fast enough”
- Some neighborhoods remain unserved
YBSP Recommended Strategies and Action Items for Davis

- Pursue solution to expiring I-Net issue
  - Potential for other providers
  - Consider a feasibility study for community broadband network
- Adopt General Plan Amendment as policy framework to:
  - Adopt dig-once, joint trenching, engineering standards, etc.
  - Incorporate broadband into development impact fee and CIP program
  - Eliminate obstacles from permit process
  - Include broadband in all public & private projects
- Coordinate with other local agencies for joint infrastructure:
  - DJUSD, UCD, Unitrans, Yolo County, Yolo County Housing
Thank you!

John Honker, Magellan Advisors
Office – (786) 208-8952
jhonker@magellan-advisors.com

Christine Crawford, LAFCo Executive Officer
Office - (530) 666-6048
www.yololafco.org
FCC Proposal to Regulate Broadband as Utility

• Critical shift in thinking
• Broadband as essential infrastructure
• 25 Mbps is minimum speed to market as “broadband” per FCC
• Federal legislation has been introduced to block the FCC from reclassifying
• Stay tuned...