

# DRAFT

# Yolo Broadband Strategic Plan

Davis City Council  
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Yolo  
LAFCo



*Collaboration for Better Government*

# 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

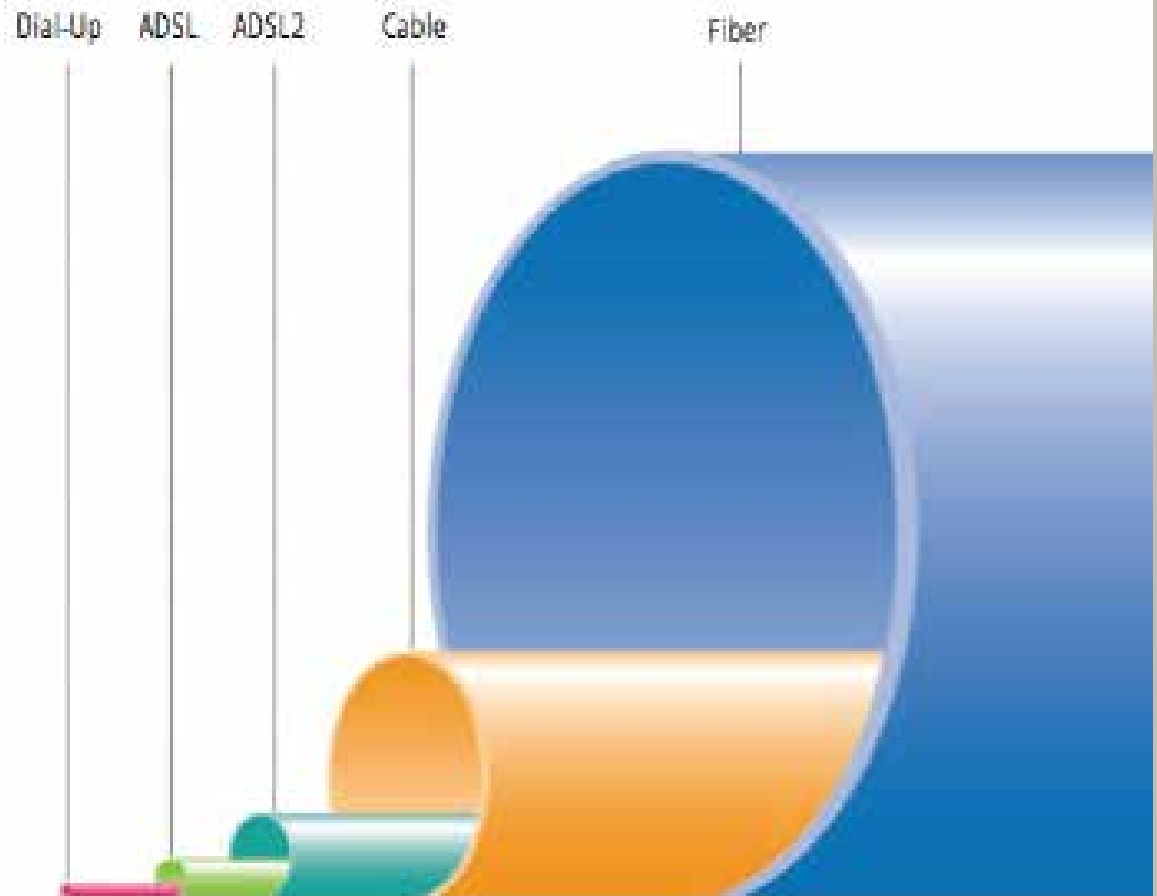
- Second Generation DSL
- Shared Technology

## Cable – 150Meg

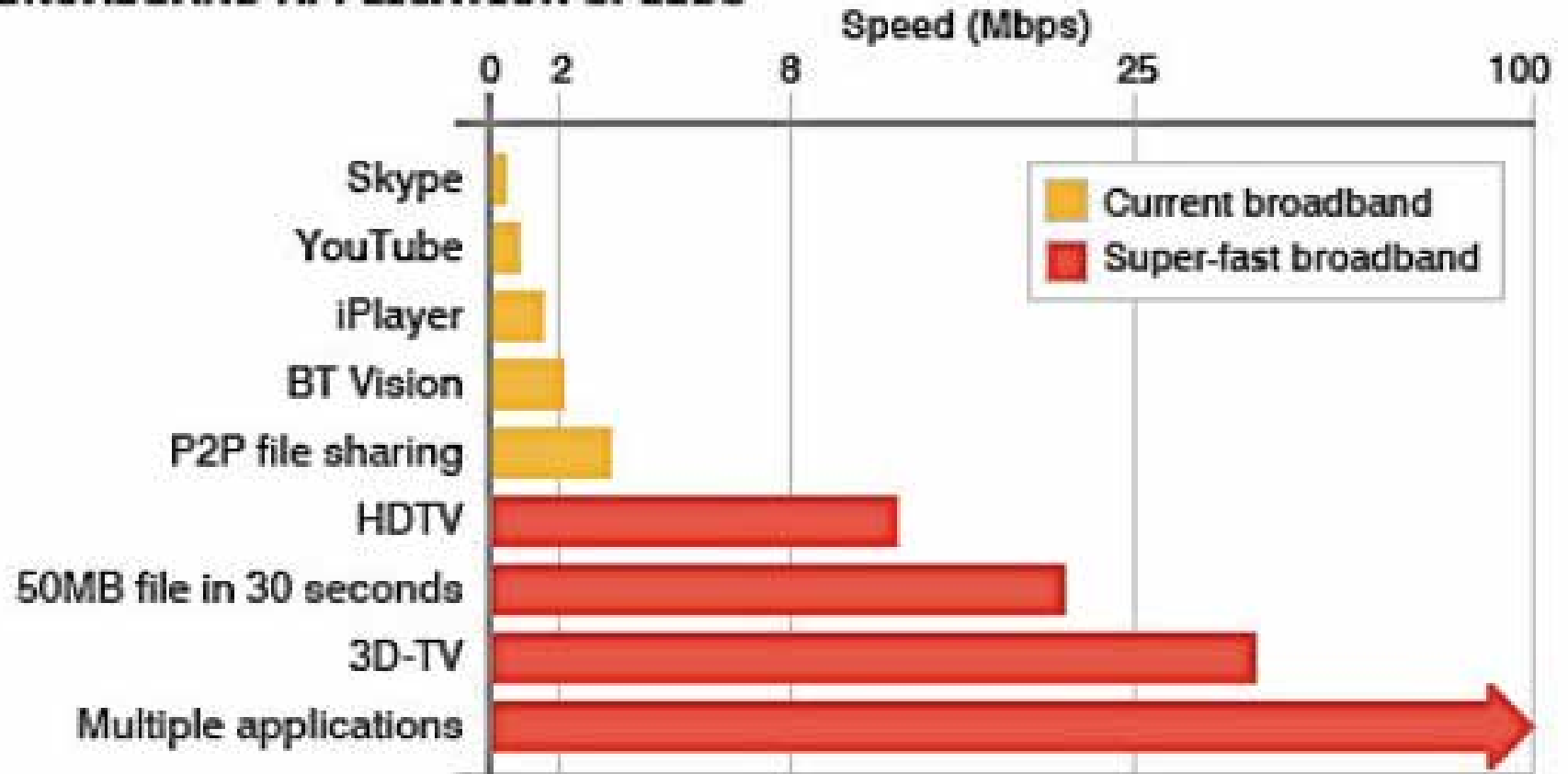
- DOCSIS 3.0
- Shared Technology

## Fiber – 1Gbps

- PON, Active Ethernet
- Shared and
- Dedicated Technology



## BROADBAND APPLICATION SPEEDS



SOURCE: Ofcom

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# Why Is Broadband Important?

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

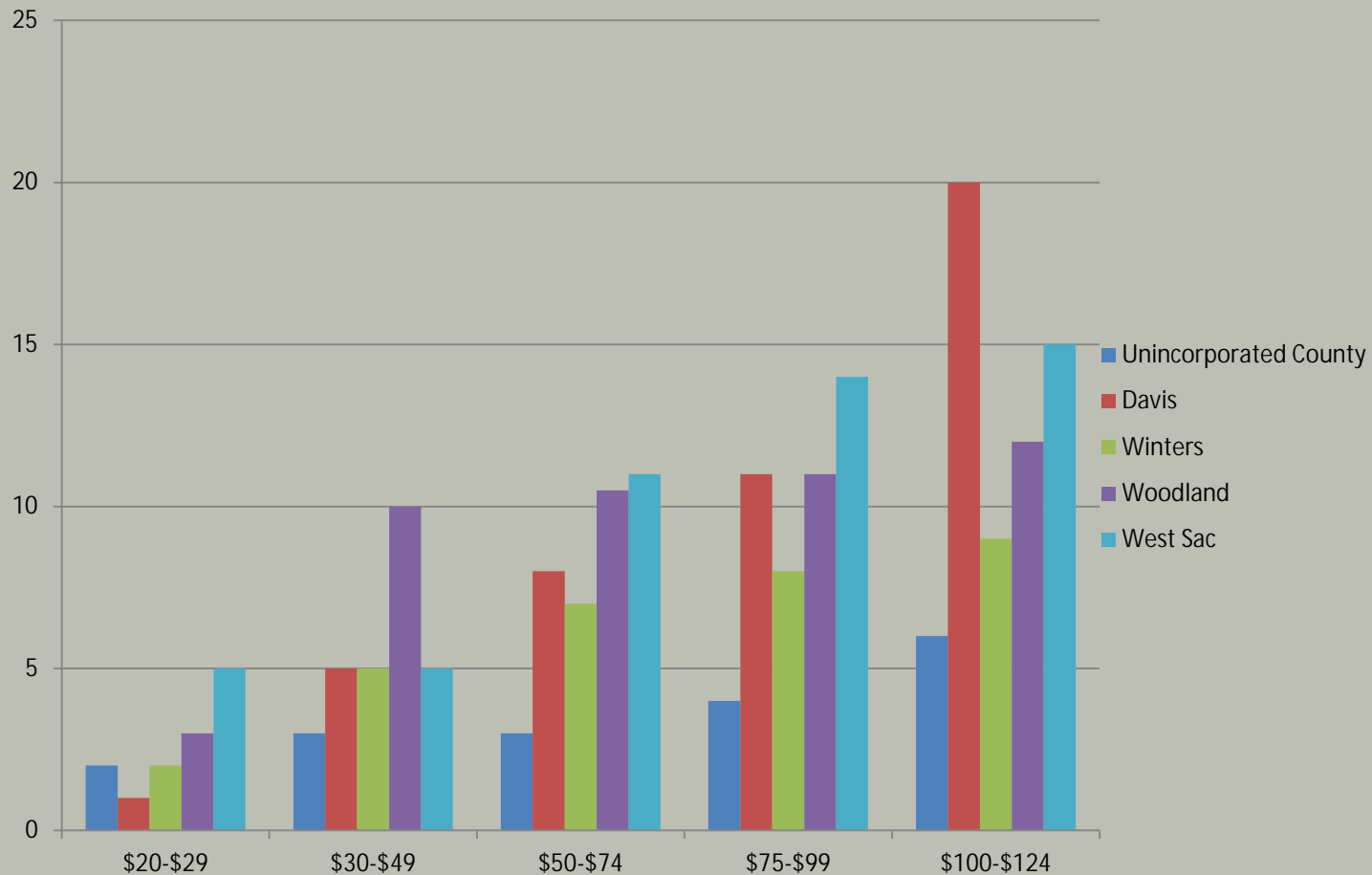


# What is the Problem?

- 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



# Monthly Cost Versus Speeds Reported (in Mbps)



\* 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





Figure 4.1: Residential Broadband Coverage in Davis (Download Speeds Only)

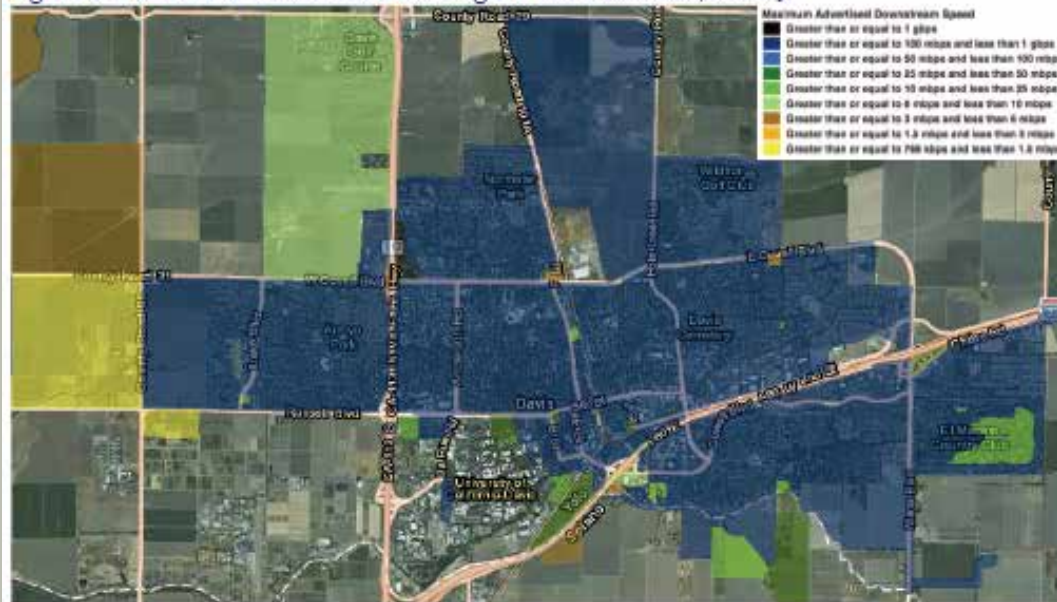
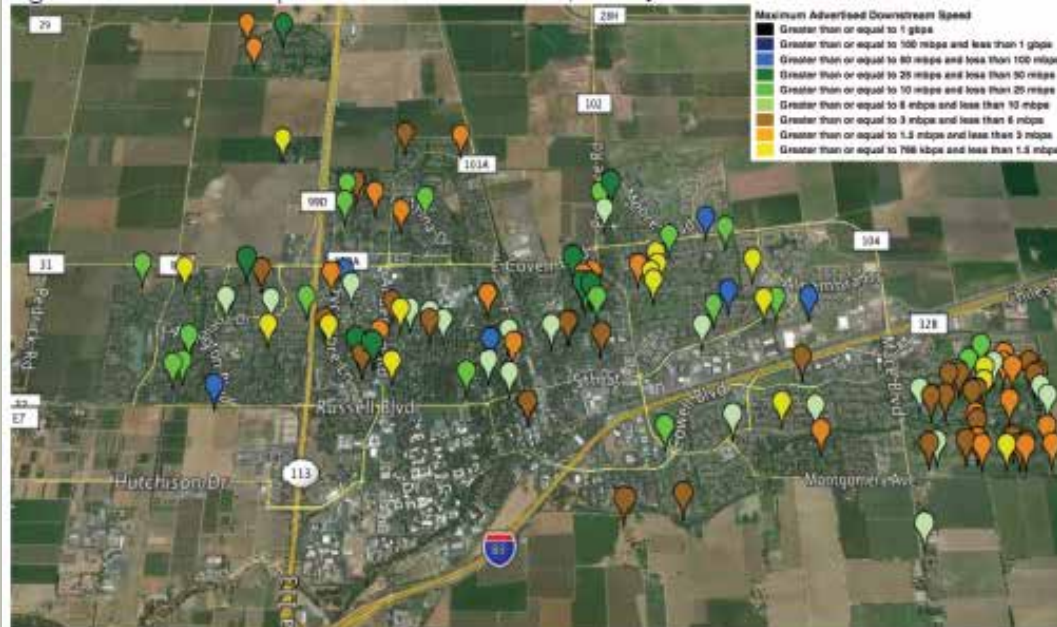


Figure 4.2: Residential Speedtest Results (Download Speeds Only)



# 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!

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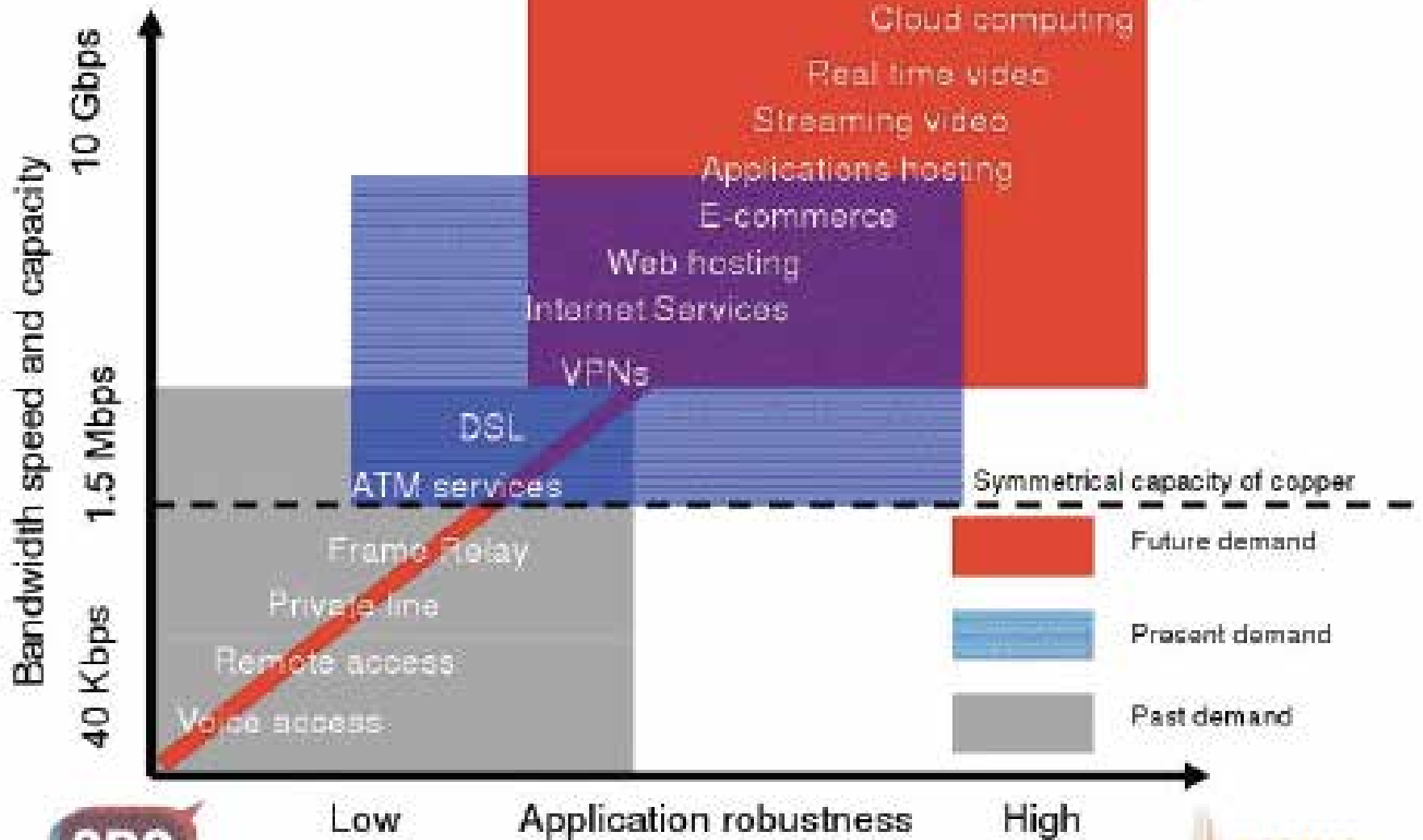
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# Users' Applications Demand Growth



# 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...

