



CETF

Michael Morris
Program Supervisor
Video Franchising and Broadband Deployment
Communications Division
California Public Utilities Commission
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ARRA Broadband Data and Development Program Grant

- CPUC received \$2.3 Million
- Mapping Activities for initial four year term (\$1.8 Million)
 - May be extended 3 additional years
- Planning Activities for four years (\$500,000)





ARRA Grant Mapping Activities

- Collect broadband **availability** data from all California providers twice per year
 - > 768k down and >200k upstream
 - Available in normal 7-10 day service interval
 - “Facilities-based” ISP (i.e., no pure resale)
- By Census Block for Blocks > 2 sq. mi.
- By street segment for larger Blocks
- Technology type
- Maximum advertised speeds
 - Up and down speed tiers
 - Actual speed – a challenge
- Middle mile location and capacity
- Community Anchor Institution information
- Create interactive on-line map





ARRA Grant Mapping Activities

- Data verified by CSU Chico Research Foundation
 - Phone calls – total state and rural areas
 - Compare to public information about location of facilities
 - Propagation/degradation models





ARRA Grant Planning Activities

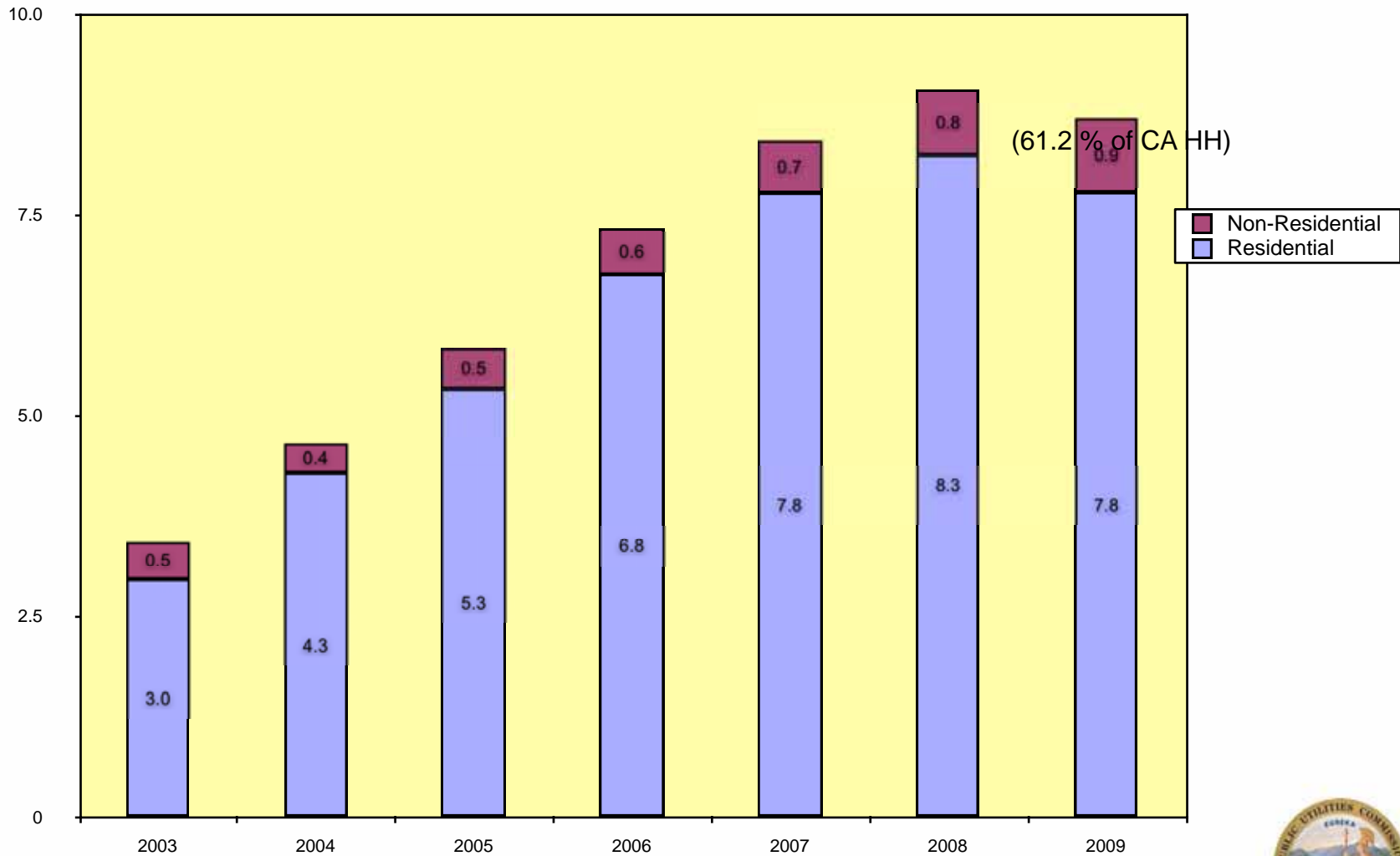
- **Determining and reporting broadband adoption rates**
 - **Identifying areas of low adoption**
- **Identifying target groups and other Sustainable Broadband Adoption grant recipients to identify and share best practices, success stories, and adoption materials**
- **Identifying technology and other interest-specific groups, local government and community-based organizations, and regional planning organizations to coordinate and distribute broadband adoption materials, statistics and success stories**





All Broadband Connections in CA

All Wireline Broadband Connections in California





Broadband Penetration Growth (DIVCA Franchisees)

- Residential Wireline Broadband Penetration Increased by 12.7% during 2008 in California (DIVCA Data)

	2007 Penetration	2008 Penetration ^[1]	2007 - 2008 Growth
Residential Wireline Broadband	55%	62% (7,910,166 subs)	12.7%
Mobile Broadband Wireless Service Plans	6%	14%	133%

^[1] Penetration = Number of Subscribers / 12,733,414 households

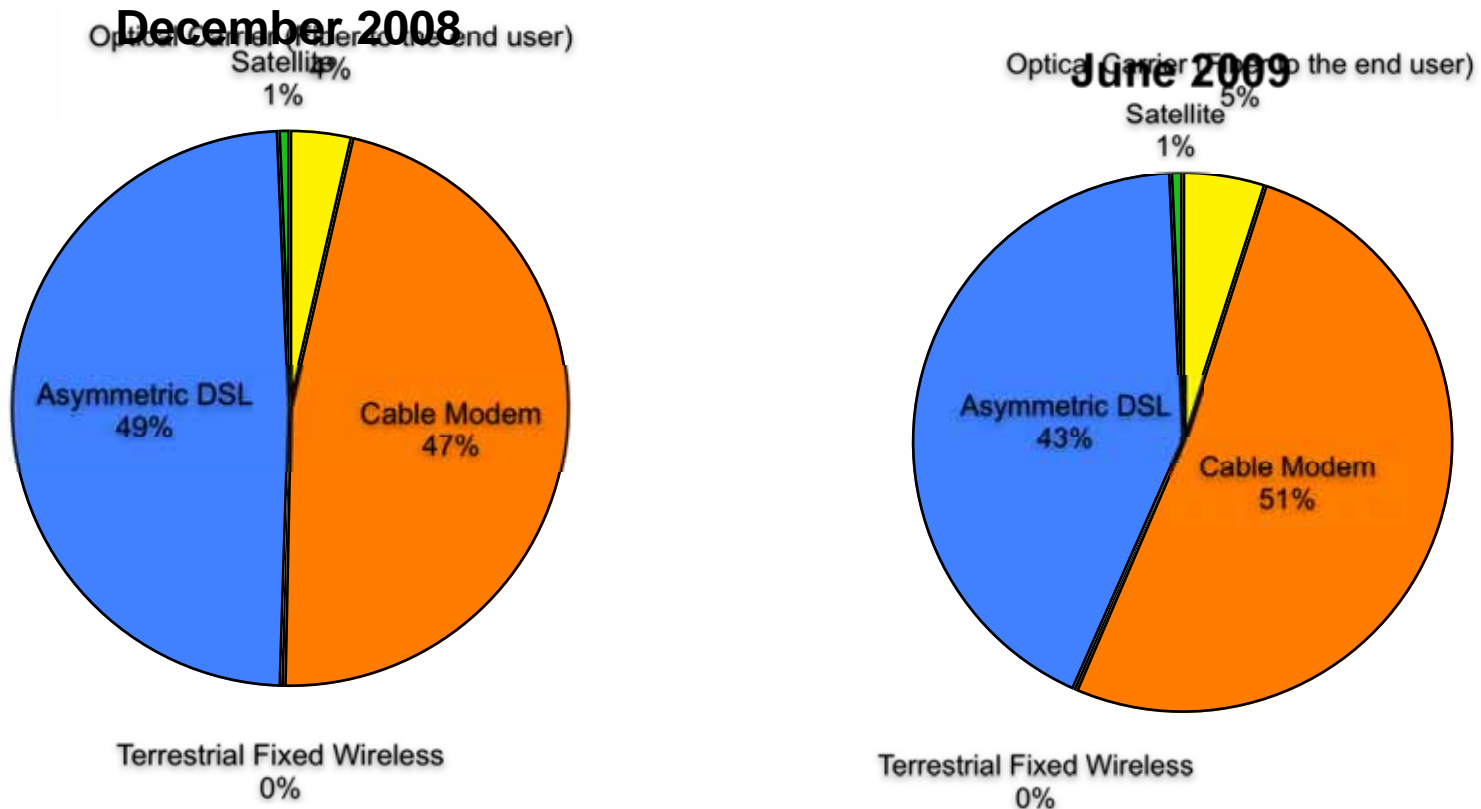
^[2] In some cases, wireless broadband is purchased by many of the same households that also purchase wireline broadband. However, the DIVCA data do not allow this to be quantified.





Technologies Used to Deliver Broadband

Residential Fixed Broadband Subscribers by Service Type



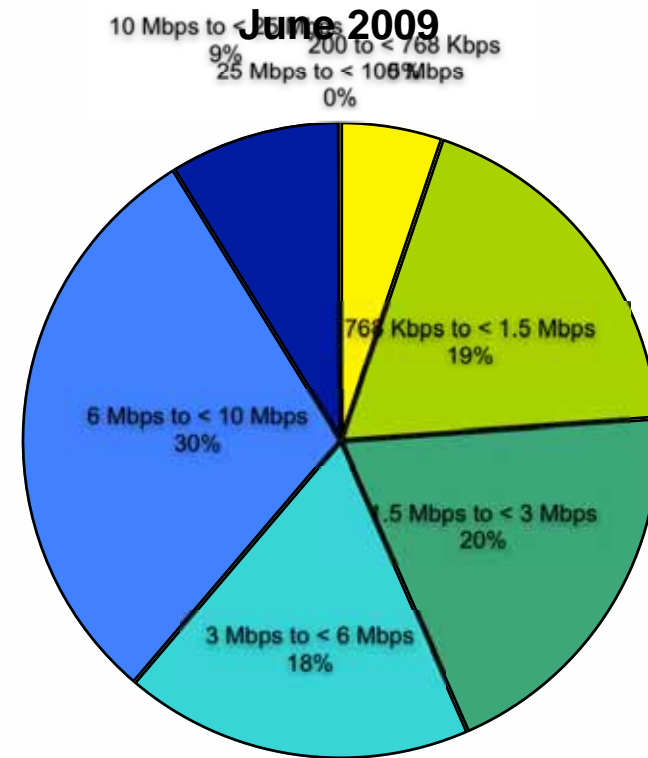
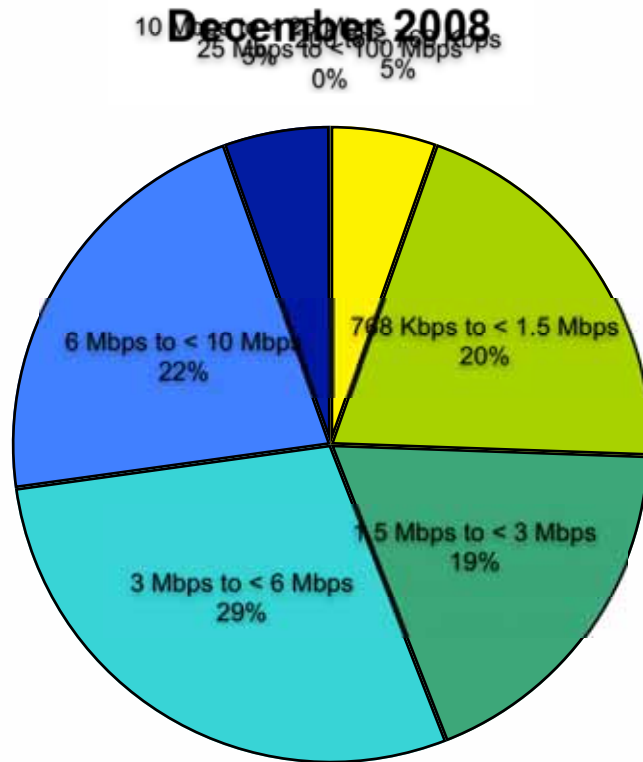
Source: FCC Form 477 filings





Broadband Download Speed

Fixed Broadband Subscribers by Speed

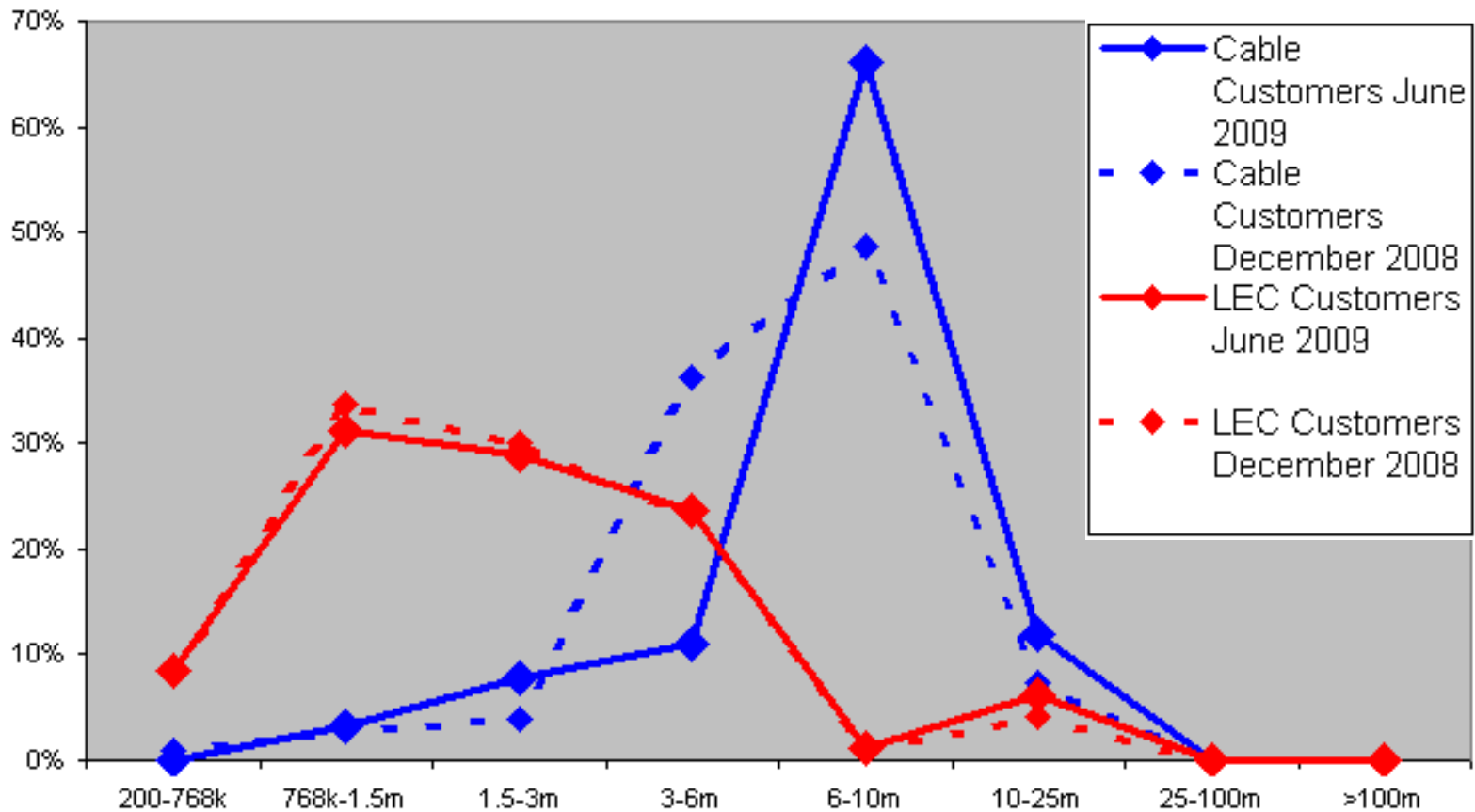


Source: FCC Form 477 filings. Includes xDSL, fiber, cable modem, satellite, and terrestrial fixed wireless. Includes business and residential subscribers.





ILEC vs. Cable Comparison Percent of California Broadband Customers by Download Speed



Source: FCC Form 477 as of June 30, 2009

