



Assessment of Mobile Broadband in California

Federal-State Joint Conference on Advanced
Services, Panel on Internet Access and
Adoption Programs and Strategies

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Key Points

- Advertised coverage is meaningless without reliable service level parameters
- Despite prevalence of LTE, rural service is substantially inferior to urban service
- Mobile broadband is becoming more, important, but is it a reliable substitute for wireline?



California Advanced Services Fund

- 0.464% surcharge on telephone bills in California
- Four accounts (\$315M total):
 - Broadband Infrastructure Grant Account (\$270M)
 - Broadband Infrastructure Revolving Loan Account (\$10M)
 - Rural and Urban Regional Broadband Consortia Grant Account (\$10M)
 - Broadband Public Housing Account (\$25M)
- Provides funding for capital costs of broadband infrastructure projects in unserved and underserved areas in California.
- Maximum grant award:
 - 70% total costs for projects in unserved areas (<768 Kb/s down/200 up)
 - 60% total costs for projects in underserved areas (<6 Mb/s down/1.5 up)



CalSPEED and Field Testing

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CalSPEED
California Public Utilities Commission

★★★★★ (1)

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Description

CalSPEED, released by the California Public Utilities Commission (CPUC), empowers end-users with a professional-level, industry-standard testing tool to measure the quality and speed of their mobile data connection.

CalSPEED conducts a two-phase test including initial testing and results validation in order to ensure statistically significant measurements. Test your upload speed, download speed, message delay (latency), and message delay variation (jitter) using CalSPEED. The first two metrics measure your Internet usage experience, while the second two measure the voice quality of voice over IP technologies.

Results are uploaded to a public repository at CPUC to provide you with the ability to compare broadband coverage at your location with other areas in California.

Visit Developer's Website > Email Developer > Privacy Policy >

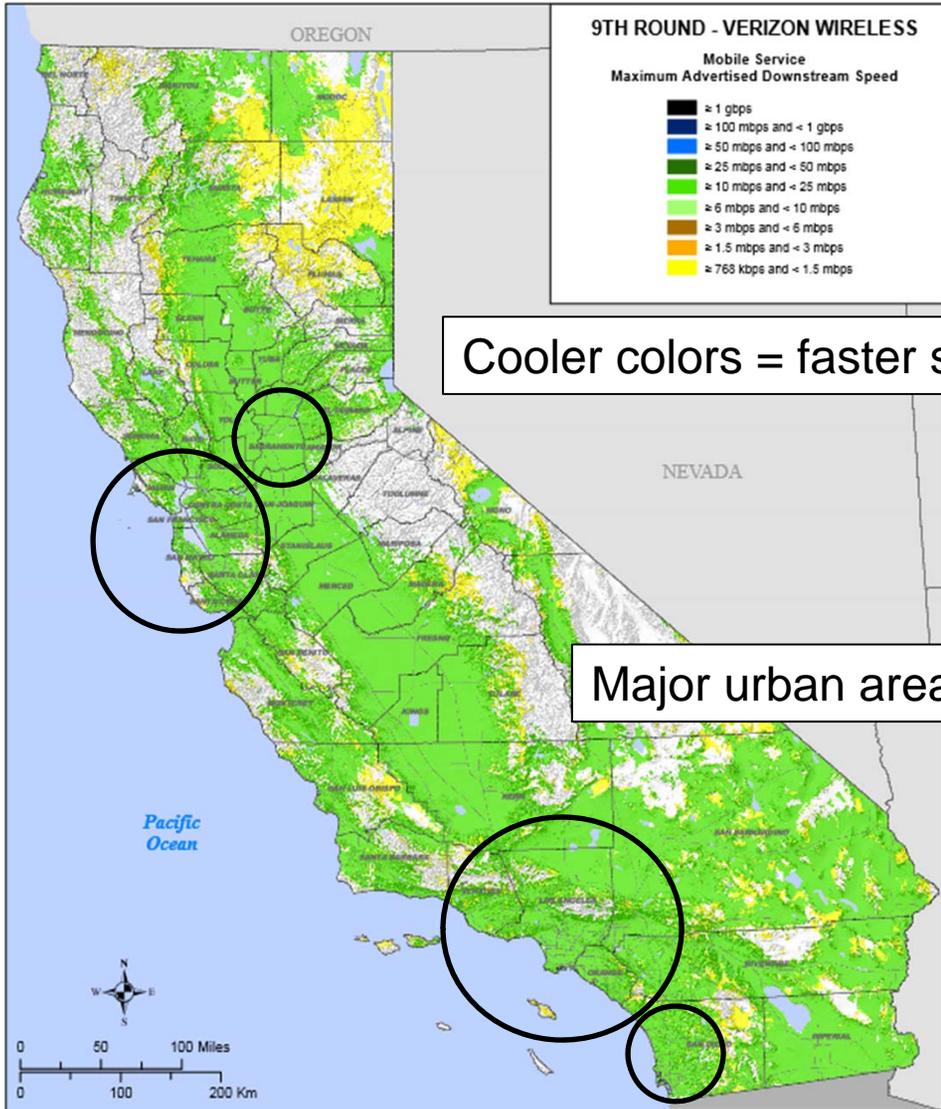
App Screenshots

2nd Round Average Downstream Speed

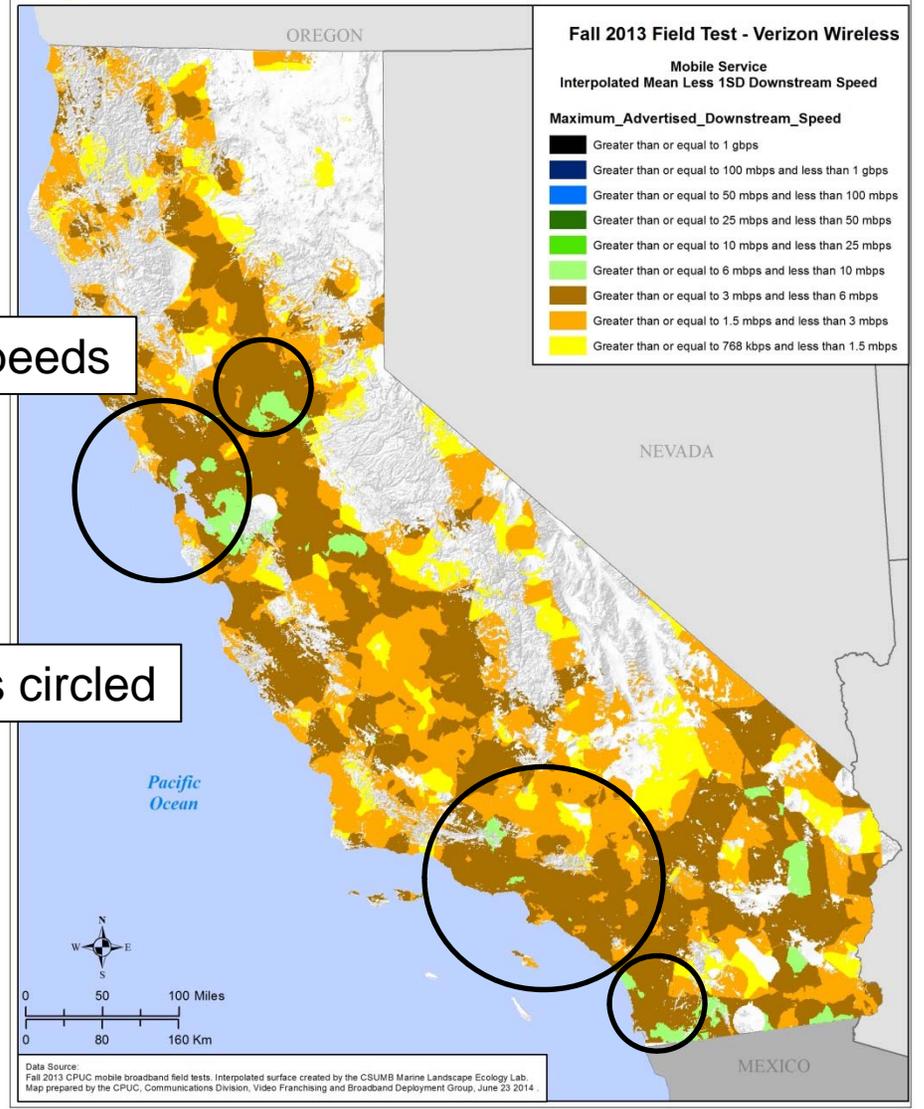
Location ID:	1825
Latitude:	38.677914
Longitude:	-121.862
AT&T Upstream Speed (kbps):	6,221.88
Sprint Upstream Speed (kbps):	859.91
T-Mobile Upstream Speed (kpbs):	161.61
Verizon Upstream Speed (kbps):	651.91
Average Upstream Speed (kbps):	1,973.83
AT&T Downstream Speed (kbps):	15,544.63
Sprint Downstream Speed (kbps):	1,434.98
T-Mobile Downstream Speed (kbps):	6.51
Verizon Downstream Speed (kbps):	1,112.9
Average Downstream Speed (kbps):	4,524.75



STATE OF CALIFORNIA BROADBAND AVAILABILITY



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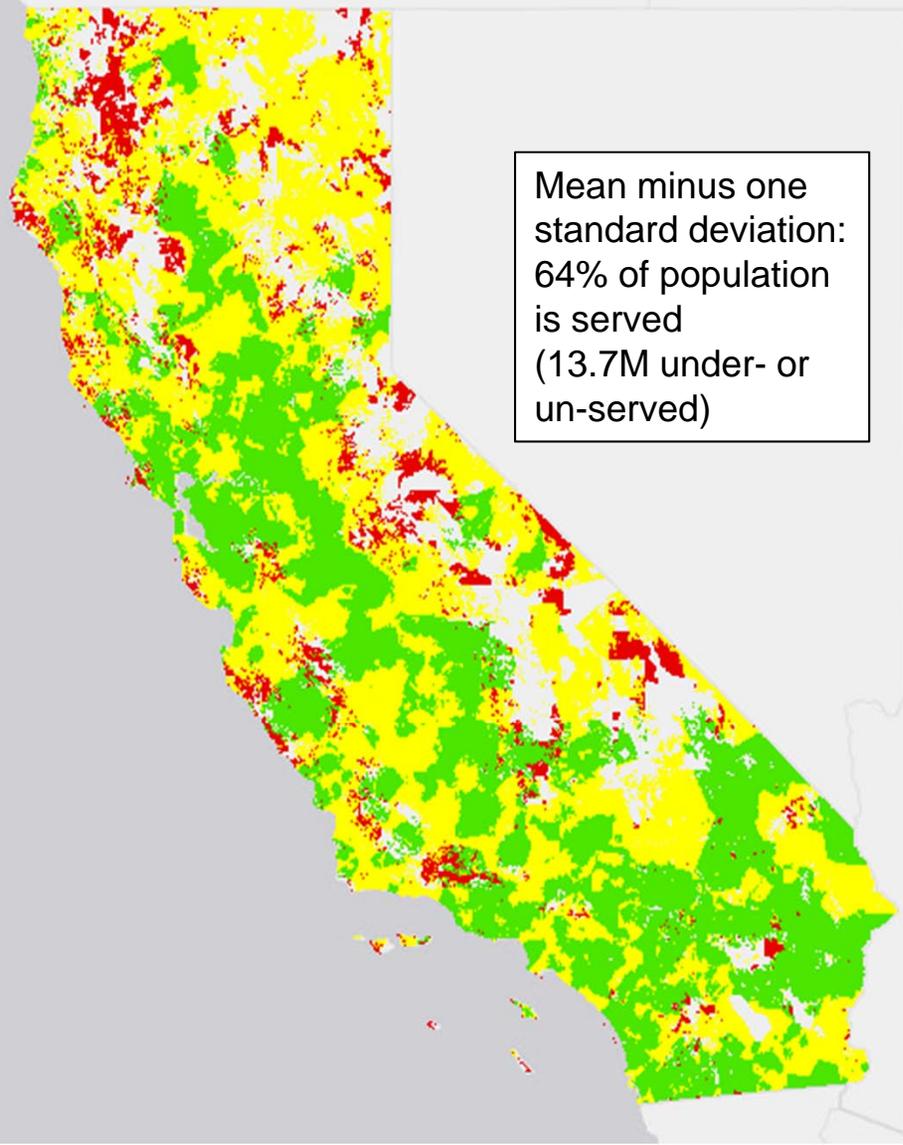
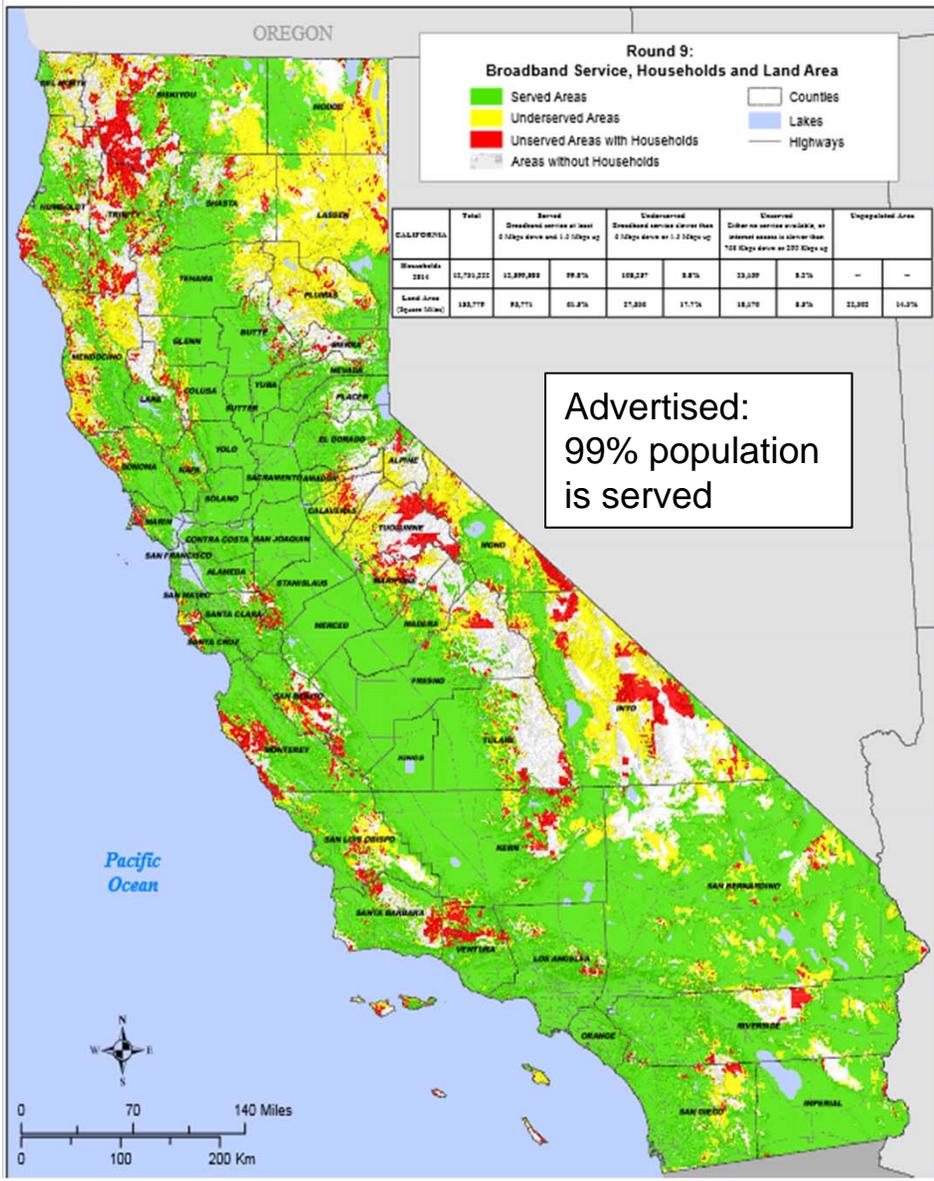




Mobile Broadband



STATE OF CALIFORNIA Mobile Broadband Availability



Mean minus one
standard deviation:
64% of population
is served
(13.7M under- or
un-served)



Urban vs. Rural

