



# CTF Goals and Metrics

AC Meeting Presentation

June 3, 2019





# California Teleconnect Fund

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# CTF Overview and Background

## PU Code Section 709 -

Improve access to advanced telecommunications services for:

- Community institutions (schools, hospitals, etc.)
- Rural, inner-city, low-income, and disabled Californians.





# CTF Overview and Background

## PU Code 884 -

- Address inequality of access to high-speed broadband services
- Discounted rates for schools, libraries, community tech programs
- Expand access for rural, inner-city, low-income, and disabled Californians





# CTF Overview and Background

## Program Goals:

1. Advance Universal Service
2. Direct Access to Advanced Communications Services
3. Connectivity at Reasonable Rates
4. Direct Access for Communities in Need





# Goal #1

Achieve full participation by all eligible entities.





# Metrics

- CTF participation rate of each qualifying category
- CTF program awareness level
- Percentage of participants meeting the CTF advanced services benchmark





# Definitions

- Qualifying categories
  - Schools
  - Libraries
  - Community Colleges
  - Community-based Organizations (CBOs)
    - CBO Healthcare
  - Government-owned Hospitals and Clinics
  - California Telehealth Network
- Advanced services







# CTF Participation Rates

## Schools

Entities	Total Number of Potentially Eligible Entities <i>Source: California Department of Education, March 2019</i>	Total Number of Approved and Active Applicants <i>Source: Oracle, March 2019</i>	Participation Rate
Public Schools	10,675	1,083	10%
Private Schools	3,614	1,440	40%
Not eligible per CTF application rule requiring a separate application for each site at which CTF discount is applied.			
School Districts*	1,113	1,033	93%

## Community Colleges

Entities	Total Number of Potentially Eligible Entities <i>Source: California Community Colleges Chancellor's Office, March 2019</i>	Total Number of Approved and Active Applicants <i>Source: Oracle, March 2019</i>	Participation Rate
Community Colleges	114	46	40%
Not eligible per CTF application rule requiring a separate application for each site at which CTF discount is applied.			
Community College Districts	72	50	69%





# CTF Participation Rates

## Libraries

Entities	Total Number of Potentially Eligible Entities	Total Number of Approved and Active Applicants* <i>Source: Oracle, March 2019</i>	Participation Rate
Public Libraries	1,119 <i>Source: California State Library, March 2019</i>	361	32%
Other libraries includes academic, government, law, medical, military, religious and special libraries.			
Other Libraries	925 <i>Source: American Library Directory published by Information Today, Inc.</i>	32	34%
Not eligible per CTF application rule requiring a separate application for each site at which CTF discount is applied.			
Library Consortia/Systems	17 <i>Source: American Library Directory published by Information Today, Inc.</i>	11	65%





# CTF Participation Rates

## Non-Healthcare CBOs

Entities	Total Number of Potentially Eligible Entities <i>Source: IRS tax exempt organization database for California, April 2019, National Taxonomy of Exempt Entities (NTEE)</i>	Total Number of Approved and Active Applicants <i>Source: Oracle, April 2019</i>	Participation Rate
Non-healthcare CBO	13,426*	Eligible	
		3,359 (Revenue less than \$5 mil)	25.0%
		Not eligible per \$5 mil revenue cap adopted in D.15-07-007	
		3,367 (Revenue over \$5 mil)	25.1%

\*Potentially eligible entities are in the following NTEE categories:

- Education Institutions and Related Activities (e.g., vocational schools, adult educations);
- Employment and Job Related (e.g. employment preparation and procurement, vocational counseling, job training);
- Food Banks and Pantries;
- Housing and Shelters (e.g., senior housing, independent housing for disabled, housing assistance, homeless shelters);
- Youth Development (e.g., Boys and Girls Clubs, Big Brothers and Big Sisters); and
- Human Services Multipurpose (e.g., Red Cross, Salvation Army, YMCA, YWCA, childcare centers, family violence shelters)





# CTF Participation Rates

## Healthcare CBOs

<b>Entities</b>	<b>Total Number of Potentially Eligible Entities</b> <i>Source: IRS tax exempt organization database for California, April 2019, National Taxonomy of Exempt Entities (NTEE)</i>	<b>Total Number of Approved and Active Applicants</b> <i>Source: Oracle, April 2019</i>	<b>Participation Rate</b>
Healthcare CBO	4,696*	Eligible	
		2,315 (Revenue less than \$50 mil)	49%
		Not eligible per \$50 mil revenue cap adopted in D.18-01-006	
		47 (Revenue over \$50 mil)	1%

\*Potentially eligible entities are in the following NTEE categories:

- Health General and Rehabilitative
- Mental Health Crisis Intervention
- Human Services Multipurpose





# CTF Participation Rates

## Government-owned Hospitals and Clinics

Entities	Total Number of Potentially Eligible Entities <i>Source: California Department of Health and Human Services, April 2019</i>	Total Number of Approved and Active Applicants <i>Source: Oracle, April 2019</i>	Participation Rate
Government-owned Hospitals and Clinics	265	172	65%

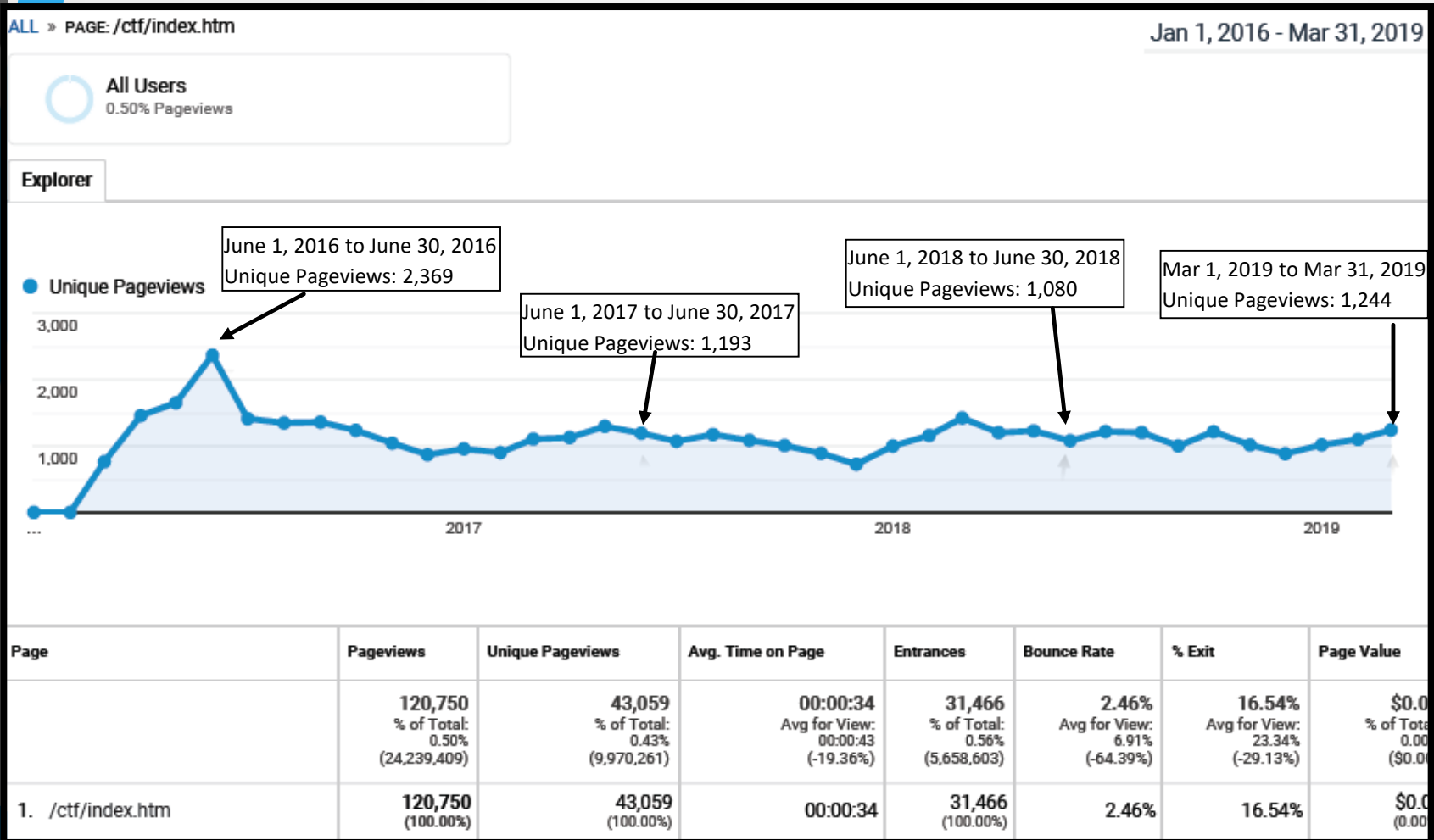
## California Telehealth Network

Entities	Number of California Telehealth Network Sites <i>Source: California TeleHealth Network</i>	California Telehealth Network Members with CTF Approved Application Numbers <i>Source: CTF Data Request FY 2019</i>	Penetration Percentage
California Telehealth Network	178	60	34%





# CTF Program Awareness Level





## Participant level of products in comparison with CTF-defined advanced services for each qualifying category

*\*Based on FCC's 2018 Broadband Definition: 25Mbps Download/ 3Mbps Upload Speeds*

Entity	Total Services	Advanced Services	Nonadvanced Services	Unknown Services
Schools	59	40%	44%	16%
Libraries	35	23%	40%	37%
Community Colleges	65	28%	34%	38%
Hospitals	107	32%	41%	27%
CBOs	202	4%	39%	57%
CTN	1	100%	-	-





# Goal #2

Migrate all CTF participants to advanced services.







# Metrics

- Percentage of CTF support for advanced vs. non-advanced services per participant category.
  - Participants' change in service level (speed) over time.
  - Number of participants subscribing to all advanced services vs. number of participants subscribing to only non-advanced services.
  - Number of CTF-eligible products the carrier offers in comparison to the number of products offered by the carrier with the CTF discount.





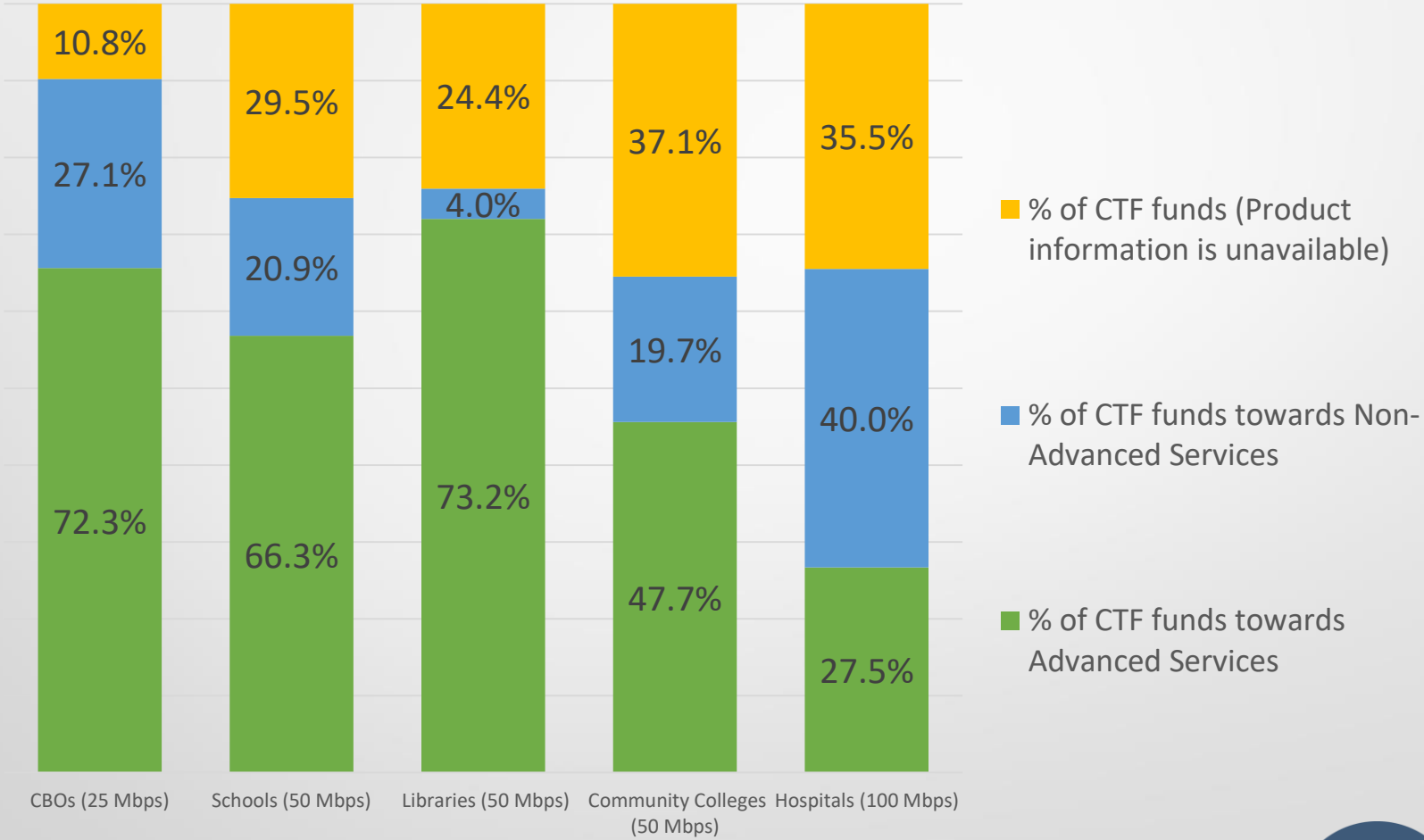
# Proposed Minimum Speeds by Entity Group

Entity Groups	Proposed Minimum Speed Needed
CBOs Healthcare CBOs	At least 25 Mbps for downloads and 3 Mbps for uploads.
Schools Libraries Community Colleges	At least 50 Mbps for downloads and 6 Mbps for uploads. At least 1.5/ 100 users
Government Hospitals	At least 100 Mbps for downloads and 12 Mbps for uploads. At least 10 Mbps/User





# Percentage of claimed CTF funds on Products/Speed by Entity Group



\* Services/Speed: Minimum speed proposed varies by Entity Group. Data gathered from top 20 carriers' most recent claims in 2018-2019. Top 20 carriers constitutes approx. 80% of CTF claim funds.





# Goal #3

Address inequality issues by prioritizing rural, low-income, inner-city, and disabled Californians.





# Metrics

- CTF participation rate of participants in rural areas vs. urban areas
- CTF participation rate of participants in low-income areas vs. non-low-income areas
- CTF participation rate of participants in inner-city areas vs. non-inner-city areas





# Definitions

- Rural vs. urban
- Low-income areas
  - Federal: 2018 weighted average poverty threshold; based on the USDA's "economy food plan"; uniform across the country
  - Statewide: 2018 Census Quick Facts; 5-year ACS figures (2013-2017); Extremely low income threshold at 30% of median household income
  - County: 2018 State Income Limits (CA Dept of Housing & Comm Dev); Extremely low income threshold at 30% of median household income
- Inner-city
- Disabled





# Rural vs. Urban

**Urban / Rural status of California (2010 Census)**

	Population	% to Total
Urban	35,373,606	95%
Rural	1,880,350	5%
<b>Grand Total</b>	<b>37,253,956</b>	<b>100%</b>

**Urban / Rural status of CTF participants' Census Block location**

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	PUB	PRIV	LIB	CCC	HOSP	CTN	CBO	Total
Urban		67%	89%	80%	79%	78%	100%	86%	83%
Rural		13%	3%	3%	8%	12%	0%	3%	4%
N/A		20%	8%	18%	12%	10%	0%	11%	13%
<b>Total</b>		<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>





# Low-income areas

## Income status of Census Block Groups

	Count	% to Total
Low-income areas (Y)	685	3%
Non-low-income areas (N)	22,513	97%
<b>Grand Total</b>	<b>23,198</b>	<b>100%</b>

## Income status of CTF participants' Census Block Group

All low-income thresholds

	PUB	PRIV	LIB	CCC	HOSP	CTN	CBO	Total
Low-income (Y)	2%	1%	4%	0%	2%	0%	5%	4%
Non-low-income (N)	78%	91%	79%	88%	88%	100%	84%	83%
N/A	20%	8%	18%	12%	10%	0%	11%	13%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>







# Inner City and disabled

## Inner City

- Combination of urban and low income
- Population density can be an additional factor

## Disabled

- Based on self-identification of end users
- Can be determined from survey data or other analysis





# Thank You!

For additional information:

[www.cpuc.ca.gov](http://www.cpuc.ca.gov)  
[www.cpuc.ca.gov/ctf/](http://www.cpuc.ca.gov/ctf/)

