

1 **ATTACHMENT 1**

2 **INTERVENOR TESTIMONY OF**  
3 **SUNNE WRIGHT MCPEAK, PRESIDENT AND CEO,**  
4 **CALIFORNIA EMERGING TECHNOLOGY FUND**

5 My name is Sunne Wright McPeak. I am the President and CEO of the California  
6 Emerging Technology Fund (“CETF”). I supervise and direct all public policy efforts by CETF. A non-  
7 profit organization established by this Commission in 2006 with the mission to close the Digital Divide in  
8 California, CETF has over a decade of expertise in broadband infrastructure and broadband adoption  
9 programs.

10 CETF regularly appears before this Commission in various proceedings relating to corporate  
11 mergers and the California Advanced Services Fund. In corporate mergers by providers of broadband  
12 services, CETF recommends that all corporate consolidations should be reviewed to ensure there are  
13 public benefits that are “appropriate, fair and comparable” to prior mergers where applicants voluntarily  
14 have provided a variety of public benefits, for example, new or upgraded infrastructure builds in the state,  
15 voluntary commitments to affordable rates for broadband service, and free or low-cost Internet ready  
16 electronic devices for low-income households, free public Wi-Fi hotspots in rural/remote areas or low-  
17 income urban areas, and other broadband adoption efforts for Digital Inclusion in the state. CETF has  
18 successfully negotiated settlement agreements with major broadband providers engaged in corporate  
19 consolidations to ensure there are public benefits afforded to the people of California relating to  
20 broadband infrastructure and adoption.

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22 In this merger, CETF has a strong interest in ensuring that this proposed merger of Sprint  
23 Communications Company, L.P. (“Sprint”) and T-Mobile USA (“T-Mobile”) (collectively referred to as  
24 “Applicants”) has benefits for California wireless customers, particularly those who are low-income and  
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1 who rely on only their smartphones to access the Internet. CETF has this concern because both Sprint  
2 and T-Mobile have disproportionately more low-income customers than AT&T Mobility or Verizon  
3 Wireless and will be the largest prepaid provider in the market should the merger be approved.<sup>1</sup> Further,  
4 the Applicants have promised to improve data speeds nationally with the combined new T-Mobile entity,  
5 but there are no assurances made in the Applicants' Wireless Application that such data speed increases  
6 will occur *in California*. As shown in the wireless service maps produced by this Commission's  
7 Broadband Maps, wireless service speeds are often very slow and unreliable in rural, remote and tribal  
8 areas of California. In some areas, there is no wireless service at all. CETF recommends that this  
9 Commission require that the Applicants be clear about what benefits in terms of wireless infrastructure  
10 will flow *to California*, on what timeframe, and at what speeds. Any approval should be conditioned on  
11 such infrastructure commitments being fulfilled and ensuring Commission monitoring of verifiable  
12 progress.  
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14 In the Amended Assigned Commissioner's Scoping Memorandum and Ruling, dated October 4,  
15 2018 (hereinafter "Amended Scoping Memo"), issues to be addressed in this proceeding include the  
16 following:  
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- 18 • 1. How would the merger impact competition for services currently provided by Sprint or T-  
19 Mobile in any metropolitan area or other geographically distinct market?
- 20 • 10. How would the merger impact the quality of, and access to, service to California consumers  
21 in metropolitan areas, rural areas, or other geographically distinct markets? What services would  
22 be affected?
- 23 • 11. How would the merger impact the Lifeline program?
- 24 • 12. Should the Commission impose conditions or mitigation measures to prevent significant  
25 adverse consequences and, if so, what should those conditions or measures be?

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<sup>1</sup> CETF refers to the chart showing that T-Mobile and Sprint customers are disproportionately lower income than AT&T Mobility and Verizon Wireless customers on page 13 of the Protest of the Joint Consumers to Joint Application for Approval of Transfer of Control of Sprint Communications Company, L.P. Pursuant to Public Utilities Code Section 854(A), filed on August 16, 2018 (hereinafter "Joint Consumers Protest"), in this docket. The Joint Consumers are TURN and Greenlining, two consumer groups.

1 (See Amended Scoping Memo at 2-3.) The purpose of CETF’s testimony is to respond to these issues in  
2 the proceeding, but it reserves the right to address additional issues raised by the testimony of other  
3 parties.

4 As the third and fourth largest U.S. wireless carriers respectively,<sup>2</sup> the T-Mobile – Sprint merger  
5 will create a combined New T-Mobile entity with more than 126 million customers, bringing it closer in  
6 size to first place rival Verizon (153.9 million customers as of Q3 2018), and second place rival AT&T  
7 Wireless (150.2 million customers as of Q3 2018).<sup>3</sup>

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9 CETF points out that T-Mobile is the U.S. market leader in the *prepaid* wireless mobile phone  
10 service market. According to a 2013 Euromonitor International article, “T-Mobile . . . fiercely jumped on  
11 the prepaid bandwagon in 2013 and finalized the acquisition of MetroPCS, a US prepaid services  
12 provider. It also dumped its 2-year contracts, increasing its focus on the provision of contractless services.  
13 This allowed the company to nearly triple its revenue from prepaid-related services in 2013, resulting in it  
14 generating the largest revenue growth rate among the top industry players in the US.”<sup>4</sup> The article goes  
15 on to predict that in the near term, the prepaid market will increase at three points over average  
16 telecommunications industry growth as the telecommunications market grows more competitive and  
17 consumers move towards contractless options to spend less. (*Id.*) A Q2 2017 study by Counterpoint  
18 Market Monitor<sup>5</sup> similarly found that “T-Mobile dominated the postpaid phone adds followed by Verizon  
19 which saw a surprise uptick after a lull last year.” Thus, it is without question that if the merger is  
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23 <sup>2</sup> As of Q3 2018, T-Mobile US reports 77.2 million customers and Sprint Corp. has 53.5 million customers.

24 <sup>3</sup> [https://en.wikipedia.org/wiki/List\\_of\\_United\\_States\\_wireless\\_communications\\_service\\_providers](https://en.wikipedia.org/wiki/List_of_United_States_wireless_communications_service_providers)

24 <sup>4</sup> <https://blog.euromonitor.com/growing-popularity-of-prepaid-mobile-services-reshapes-us-telecommunications-market/>

25 <sup>5</sup> <https://www.counterpointresearch.com/q2-2017-usa-market-back-to-growth-as-smartphone-shipments-jump-14-yoy/>

1 approved, the New T-Mobile entity will continue to be the leader in the pre-paid wireless market in the  
2 United States.

3 According to a Wikipedia definition,<sup>6</sup> a “prepaid mobile device” has credit purchased in advance  
4 of service use. The purchased credit is used to pay for telecommunications and data (Internet) services at  
5 the point the service is accessed or consumed. If there is no credit, then access is denied by the service  
6 provider company. Users then can increase, or “top up”, their credit at any time using a variety of  
7 payment mechanisms in order to resume service on the mobile device.  
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9 According to The NPD Group, in 2013, 32% of all smartphone sales in the U.S. are prepaid  
10 phones.<sup>7</sup> Thus, the prepaid market makes up a hefty one-third of the U.S. wireless marketplace. The  
11 prepaid wireless market targets and serves consumers that require certainty about the cost of their wireless  
12 phone bills. Thus, prepaid plans are popular with low-income persons, students, retirees, or others on a  
13 strict financial budget.

14 The alternative main billing method is a post-paid mobile phone, also known as a mobile  
15 contract. In a post-paid billing method, smartphone subscribers enter into a long-term contract (often  
16 lasting 12, 18 or 24 months) or a short-term contract (for example, a 30-day contract) and billing  
17 arrangement with a service provider. The largest post-paid service providers are AT&T Mobility and  
18 Verizon Wireless, who hold about 68% of the market. Post-paid billing methods are for customers who  
19 are less price sensitive and these customers are considered more profitable than prepaid customers.<sup>8</sup>  
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24 <sup>6</sup> [https://en.wikipedia.org/wiki/Prepaid\\_mobile\\_phone](https://en.wikipedia.org/wiki/Prepaid_mobile_phone)

25 <sup>7</sup> <https://www.npd.com/wps/portal/npd/us/news/press-releases/the-mpd-group-nearly-one-third-of-all-smartphones-sold-in-the-u-s-are-prepaid/>

<sup>8</sup> <https://www.zacks.com/stock/news/306823/competition-intensifies-in-the-us-postpaid-wireless-market>

1 In summary, if the merger is approved, the New T-Mobile entity will be the nation’s leader in  
2 prepaid customers which constitutes one-third of the U.S. wireless market. It will focus its efforts on  
3 wireless voice and data (Internet) service to low-income consumers and others that are price sensitive and  
4 prefer contractless agreements.

5 Annually, CETF provides funding to pay for research on broadband connectivity and the Digital  
6 Divide in California. In 2017, the “Broadband Internet Connectivity and the Digital Divide in California  
7 2017” survey released on June 27, 2017 (hereinafter referred to as the “2017 Annual Survey”) was  
8 performed by the Independent Institute of Governmental Studies Poll at the University of California, with  
9 funding from CETF.<sup>9</sup> The 2017 Annual Survey was conducted with California adults age 18 or older  
10 from May 4- May 29, 2017, administered by cellular and landline telephone by live interviewers. The  
11 sample size was 1,628 persons. It was administered in English, Spanish, Cantonese, Mandarin, Korean  
12 and Vietnamese languages.  
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14 CETF draws the Commission’s attention to the following important finding of the 2017 Annual  
15 Survey: **18% of the California households connect to the Internet through smart phone only.** (See  
16 2017 Annual Survey results at page 2, Table 1). Overall, 87% of Californians have broadband  
17 connectivity at home, with 69% via a computing device such as a desktop, laptop or tablet computer, and  
18 as noted previously, 18% via smart phone only. 13% of Californians have no home broadband  
19 connectivity at all. Further, the 18% connection to the Internet via smart phone only represents a 4%  
20 increase over 2016 when only 14% connected via a smart phone, and 2014 and 2015 when only 8%  
21 connected via smart phone. (See 2017 Annual Survey results at page 3, Table 2.) Thus, the trend is  
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<sup>9</sup> <http://www.cetfund.org/progress/annualsurvey>  
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1 *increasing* where nearly a fifth of California households are connecting to the Internet only via smart  
2 phone. As a result, CETF shares the legitimate concerns of the Joint Consumers about how to ensure  
3 affordable wireless and data service rates for the low-income populations from the New T-Mobile entity  
4 given its market power in the prepaid market for low-income consumers in the state.

5 CETF also draws attention to who is *not* connected to broadband Internet at home. Age is a key  
6 factor; the lowest connectivity (69%) is by persons aged 65 or older. Income status is also the biggest  
7 factor. There is a 75% connection rate by those making less than \$20,000 annual household income,  
8 whereas those earning over \$60,000 have connection rates of 97%-99%. (See 2017 Annual Survey  
9 results at page 6, Table 3c.) Immigrants show a 79% connection rate compared to 91% for U.S. born.  
10 75% of disabled persons are connected compared to 91% of not disabled persons. Other race/ethnicity  
11 groups showing lower connectivity than white non-Hispanics (91%) are Spanish-speaking Latinos (70%),  
12 Latino (total) (82%), and Asian American (84%). (See 2017 Annual Survey results at page 4, Table 3a).  
13 Sixty seven percent of non-high school graduates are connected compared to rates in the 90%-96% range  
14 for those with higher education attainment. (2017 Annual Survey results, at p. 5, Table 3b.)

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16 CETF further draws attention to Table 5a of the 2017 Annual Survey which delineates the  
17 reasons why California residents without home Internet connectivity say their household does not have it.  
18 The main reason (34%) is cost -- that it is “too expensive/no computer or smart phone at home.” The  
19 second next reason (22%) is “not interested”, and the third and fourth reasons (12% each) is “too difficult  
20 to set up and learn” and “concerns about privacy/computer viruses”. (2017 Annual Survey results at p.  
21 12, Table 5a) The survey demonstrates that the main concern is cost, with lack of awareness, digital  
22 literacy and privacy as the next reasons. A 2018 Digital Divide survey that was more limited in scope  
23 confirmed that while progress was made in connecting low-income households to high speed Internet,  
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1 cost and lack of awareness of more affordable subscriptions remain standing barriers to closing the  
2 Digital Divide.<sup>10</sup>

3           The 2017 Annual Survey also identified state regions where home broadband Internet  
4 connections were lower than the statewide average of 82% (both at home and outside the home). The  
5 areas with the lowest connectivity were the Inland Empire (76%) and Los Angeles County (77%). (See  
6 2017 Annual Survey results at p. 20, Table 8e.) This survey result suggests a focus on these regions to  
7 understand why the connection rate is lower, and whether there should be affirmative efforts made by  
8 Applicants (e.g. Digital Literacy classes, free WiFi hotspots to the public, low cost affordable service  
9 plans, etc.) in these regions to improve broadband adoption among those who connect to the Internet via  
10 smart phone only.  
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12           With this California data in mind, CETF raises the issue of the potential negative impact of the  
13 market power of the combined New T-Mobile entity over rates, terms and conditions, and data caps for  
14 low-cost prepaid plans for both wireless voice and Internet access targeted to low-income and other  
15 disadvantaged communities (e.g. seniors, immigrants, minorities, non-English speaking, disabled  
16 community, etc.) who have low home connection rates to the Internet. CETF is concerned that the rates  
17 and terms of service provided on smartphone low-income plans of the combined New T-Mobile entity  
18 remain affordable and of similar service quality to normal retail plans. It is a fact that for low-income  
19 households, a wireless phone often represents their only voice service and their only access to the Internet  
20 via the phone's data service. CETF also suggests that focus should be put on whether Applicants' data  
21 caps on its wireless service plans are adequate for normal usage of popular applications. Low data caps  
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<sup>10</sup> [http://www.cetfund.org/2018\\_Survey](http://www.cetfund.org/2018_Survey)  
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1 can make the Internet difficult to access, and may prohibit a low-income household from using some  
2 applications that are data intensive. For example, a student may not be able to access an educational  
3 video that she is required to watch for her American history class. If there are additional charges for data  
4 overages, these extra charges can run up the wireless bill for a low-income household and cause financial  
5 hardship.

6           CETF further expresses its concern that the Application fails to provide the usual assurances that  
7 wireless service rates will remain the same for existing customers for a certain period of time. This may  
8 signal that New T-Mobile intends to raise wireless rate plans generally, which likely will have a negative  
9 impact on subscribers who live in low-income households and communities of color.

10           CETF specifically shares the concerns of TURN and Greenlining about the future of New T-  
11 Mobile's participation in the LifeLine program in California.<sup>11</sup> Joint Consumers point out that while  
12 Sprint and its subsidiaries Virgin Mobile (via its Assurance brand) and Boost are significant players in the  
13 California LifeLine program, T-Mobile has never been a part of the California LifeLine program. The  
14 Wireless Application only promises to continue Lifeline services by Virgin Mobile. Also, Joint  
15 Consumers report that T-Mobile has stated publicly in 2017 that it intends to eliminate its Lifeline  
16 programs in seven states. CETF shares the concerns of the Joint Consumers. Should the New T-Mobile  
17 decline to voluntarily participate in the LifeLine program, this may have a serious and negative impact on  
18 the availability of wireless providers in the LifeLine program, with negative impacts on the availability of  
19 affordable plans for low-income communities. These negative impacts on our most vulnerable residents  
20 should be considered in determining whether this merger is approved.

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<sup>11</sup> Joint Consumers Protest, at 18-19.  
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1 Further, CETF shares the concerns of TURN and Greenlining who have raised in their Joint  
2 Consumers Protest<sup>12</sup> that while Applicants promise significant economic investment in rural America  
3 with high quality mobile broadband and fixed wireless services, there are no California-specific  
4 infrastructure commitments. CETF recommends that this Commission require Applicants to specifically  
5 commit to mobile broadband and fixed wireless service infrastructure upgrade commitments for  
6 California, make them merger conditions, and monitor these commitments post-merger to ensure they are  
7 performed so that California consumers will see concrete benefits from this proposed merger.  
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9 In conclusion, CETF recommends that there should be verifiable and enforceable conditions  
10 placed on this merger if approved, that will: (1) ensure that low cost and affordable wireless service plans  
11 -- including LifeLine plans that include adequate data -- remain in place at existing rates for at least 3-5  
12 years; (2) require New T-Mobile to offer low cost data plans that are adequate to access the Internet via a  
13 smartphone so that typical applications are accessible; (3) require Applicants to make California-specific  
14 commitments to infrastructure upgrades to increase data speeds in areas of the state with no, slow or  
15 unreliable wireless service, and that such commitments are verifiable; and (4) require Applicants to  
16 provide digital adoption outreach programs that encourage unconnected low-income or disadvantaged  
17 persons to access the Internet in areas where broadband adoption is low in the state. The latter may  
18 include provision of free public WiFi hotspots in low-income and disadvantaged communities that lack  
19 broadband access, and/or digital literacy education programs.  
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21 This concludes my testimony.  
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<sup>12</sup> Joint Consumers Protest, at 14-15.  
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