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Twenty-five miles of new fiber.

That's the high-speed wiring that Comcast Corp. has wrapped around the Wells Fargo Center for the Super Bowl-class media event of live video streaming and selfies at the Democratic National Convention later this month in South Philadelphia.

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Comcast announced Tuesday - no surprise here - that it will be the official "broadband and telecommunication s provider" for the political event that will likely nominate Hillary Clinton as the Democratic presidential candidate. Comcast spokesman Joel Shadle said Tuesday that the Philadelphia company also has added 50 temporary WiFi hotspots on the floor of the Wells Fargo Center, adding to the 300 permanent ones already at the arena.

The center's total data capacity will be 17,000 times faster than the average home internet connection, with the ability to handle more than 225,000 Instagram photo posts per second. "With the

new consumer technologies that have emerged since the 2012 convention, we expect an unprecedented amount of content to be created and shared using the network we have built at the Wells Fargo Center," said Bill Stemper, president of Comcast Business. — philly.com

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This year is turning out to be a bellwether year for internet law and policy. In June, a federal court ruled that high-speed internet is an essential “utility” and should be available to all Americans. In February, the Federal Communications Commission redefined broadband internet as a Title II common carrier service, moving it from an information service to a telecommunications service.

Because of these decisions, federal law now requires that broadband infrastructure be extended to all households, and that the digital divide must be closed, meaning all Americans must get trained in basic internet skills to be digitally literate.

California, like the rest of the country, still has much work to do to close the digital divide. According to the 2015 Field Poll study, one-fifth of Californians do not have high-speed internet at home. More startling, an April 2016 Public Utilities Commission report found that only 43 percent of rural households have access to reliable broadband service.

The divide is due to the cost of broadband for consumers and the expense involved in deploying infrastructure in rural and remote areas. Laying fiber optic cable in a state as large and geographically complex as California is expensive. Incentives have proved necessary to entice competitive internet service providers to make the required capital outlays and investments in infrastructure. This is why during our terms of government service, we conceptualized and helped found the California Advanced Services Fund program at the PUC.

The fund program is an innovative public-private mechanism. It funds broadband infrastructure in areas with no internet service or very slow dial-up service; in other words, where the free market – consisting of telephone companies, cable operators, wireless internet providers and others – has failed to bring fast internet services to its residents. Funding for the program has come by charging a few pennies per month on Californians’ phone bills and by requiring matching funds from willing broadband providers.

To date, the program has funded 56 broadband projects, bringing broadband to over 300,000 households. The average cost per household has been \$1,363, of which only \$441 has come from the program because California has been able to leverage federal funds. The program is highly cost effective at achieving its mission, especially when compared to the federal Connect America Fund average of \$2,550 per household.

The “Digital 395 Middle Mile Project” is an excellent example of the kinds of projects funded by the California Advanced Services Fund. Digital 395 is a 10-gigabit, 583-mile fiber optic network connecting San Bernardino County in the south to Mono County in the north. The project has provided high-speed internet access to 36 communities, six Indian reservations, two military bases, 26,000 households and 2,500 businesses – as well as to 35 public safety entities, 47 K-12 schools, 13 libraries, two community colleges, two universities, 15 health care facilities and 104 government offices.

The funding program covered \$29.2 million of the \$154 million project cost. The project also attracted over \$100 million in federal matching funds. Without the program, this project would not have been built, and hundreds of thousands of Californians would remain in digital darkness.

Despite this success, the California Advanced Services Fund will soon be out of money. Per the program’s public records, there are currently 16 broadband infrastructure projects, totaling \$154 million, pending approval, but only \$100 million left in the account. And there are many other broadband infrastructure projects that need funding in the state that have yet to apply.

If the California Advanced Services Fund is not re-funded, hundreds of thousands of California households will remain without high-speed internet access. California will remain a place where a fifth of the people face nearly insurmountable impediments to accessing the employment, educational, health and government resources the rest of us take for granted. – **Sacramento (CA) Bee op-ed by Rachele Chong (R), former FCC commissioner**

California PUC commissioner; and Lloyd Levine (D), former California Assembly member and chair of the California Assembly Utilities and Commerce Committee.

NBC Universal, an American media conglomerate, has been granted a new patent that can help track files being shared by groups via peer-to-peer networks in real-time. The patent titled "Early detection of high volume peer-to-peer swarms", seems to be way forward for NBC Universal in its ongoing attempts to restrict piracy of its copyrighted content.

The new patent will essentially help the company identify the swarm's popularity and take anti-piracy measures before is "too late to do much good." "Early detection of high volume swarms in a peer-to-peer network, including a data feed of peer-to-peer swarm activity, and an analytics engine processing the data feed and identifying the high volume swarms that have parameters that exceed a threshold. The system can include a pre-processing section for conditioning the swarm data for the analytics section. There can also be a verification section that confirms that the peer download file matches the target file," notes the patent document **issued** by USPTO (United States Patent and Trademark Office).

"The early detection provides for enhanced anti-piracy efforts, improved allocation of network resources, and better business decision-making," it adds. NBC Universal says that the "P2P infrastructure has many advantages" but it also has led to abuses. Of course, piracy of digital assets on peer-to-peer networks is considered to be one of the biggest losses incurred by content owners, estimated to be in billions of dollars annually. "These costs are typically passed along to the consuming public in terms of increased costs for legitimate purchased works and higher charges for increased deterrents to the piracy," NBC Universal added. – *Gadgets 360*



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