the.News

The Future of Communication: Broadband Expansion and New Technology

3/12/2010

1.		**Animated Open**	
2.	Michael Wu, Thomas Jefferson High Student	**SOT: Michael Wu** *When I go home the first thing I do usually is I'll go on Facebook, I'll talk to friends, maybe if I forgot a homework assignment, I can talk to them, look it up.*	0:11
3.	Laura Handley, Thomas Jefferson High Student	**SOT:Laura Handley** *It's probably improved my life a lot having access to all that information so easily.*	
4.	Dan Johnson, Thomas Jefferson High Student	**SOT: Dan Johnson** *It's really important because freedom of choice is a really important thing.*	

5.	Siddhant Sethi Thomas Jefferson High Student	***SOT: Siddhant Sethi*** *I think once we reached a level where we've introduced the internet to everyone, they will come to realize how important it is.*	
6.	Eileen Wu	***On Camera Open:*** *Hi, I'm Eileen Wu in Washington D.C. The Internet has transformed the way we live our lives, from connecting with friends to getting the latest news from around the globe. And yet about 14 million American households still don't have access to fast Internet service. That's something the FCC wants to change.*	
7.	Chairman Julius Genachowski, Federal Communications Commission	***SOT Genachowski*** *Broadband is for the 21st century what electricity was for the last century.*	
8.	FCC Policy	**Narration:** Julius Genachowski is chairman of the Federal Communications Commission. The FCC is the federal agency in charge of all telecommunications policy in the United States. Increasing broadband means faster internet access, and more capacity.	

9.	Chairman Genachowski on camera	**SOT Genachowski** *A platform for innovation// it's what we need to be globally competive in the 21st century, it's how we're going to create 21st century jobs in the United States, it's how we're going to be the center of innovation.*	
10.		**Narration:** The FCC has put together a plan to free up increase airwaves….or spectrum space…for mobile broadband. They want to create a nationwide a public safety network and expand use of wireless communications. It will make broadband an important tool for police, firemen and other public safety services. Increased educational use is a major FCC policy objective.	
11.	Who benefits? 	**SOT Genachowski** *For kids to really benefit from the best education they can get, they need a computer and they need high-speed access to the Internet.*	
12.	Kevin Rupy, Dir. Of Policy Development, U.S. Telecom 	**SOT: Rupy** *Broadband networks are going to enable individuals to do distance learning, remote learning, get their degree online, take classes online, take classes—it's no longer going to be dictated by where the classroom is and what time the class starts.*	

13.	Impact on medical care	**Narration:** Kevin Rupy is director of policy development for US Telecom, a trade association that represents broadband providers. He sees the need to increase capacity, and encourage people to use it. Along with education, Rupy predicts a direct impact in E-care – the ability to get doctors and patients together via the internet.	
14.	Rupy on Camera	***SOT: Rupy*** *That doctor's ability to serve a larger number of patients over a much larger area is tremendously enhanced. He can do remote monitoring of a patient, consolidation of health records so no matter where that doctor is, where that patient is because of a broadband network he can access that patients records. He can treat that patient remotely*	
15.	Using a smart phone	**Narration:** The access to information anywhere – anytime – is behind a program being developed at the University of Maryland. It turns a smart phone with a GPS into a tool for managing every aspect of campus life.	
16.	Professor Ashok Agrawala, University of Maryland	***SOT: Agrawala*** *So for example can I find out what movies are running in the theater today? Can I find out where my roommates are? Can I find out where my professor is so I can get an appointment with him? Can I find out when my next class meets? Can I find out to go to that class which university shuttle I should take?*	

17.	Tracking the bus	**Narration:** Right now students can find out when that shuttle is coming down to the minute. The program uses a GPS link track the bus – and displays when it will be arriving at the stop.	
18.		**Nat Sound Burst of Bus**	
19.	Public Safety Implication	**Narration:** The global positioning system is also key to a public safety application being developed by Doctor Agrawala and his students. Instead of calling 911- students would push a button on their smart phones. The phone would contact police, start recording audio and video, and feed it to a police dispatcher along with video from any security cameras nearby.	
20.	Agrawala on camera	***SOT: Agrawala*** *And then the dispatcher is given the information about where the possible responders are—the squad cars, the emergency medical people or fire or whoever—and then can select or assign 1 or more of these responders. And then can forward one or more of these videos directly to the squad cars so that the officers get to hear and see up till the last minute that they get to the scene what's going on at the scene.*	
21.	Online government	**Narration** While Public safety is a large part of the FCC's plan, the proposal would also put public internet access points in schools and public buildings and put more information about the government online.	

22.	Chairman Genachowski on Camera	***SOT Genachowski*** *There's a big gap between the amount of capacity we think is necessary and what's actually available.// So we're driving very hard to work with Congress, to work with other agencies in government through the private sector to put as much momentum as we can behind these ideas and make sure we get going.*	
23.	Impact on the future	**Narration:** So ten years from now with everything online how will people sort though it all?	
24.	Social Networks 	**Narration:** Jen Golbeck of the University of Maryland is developing applications which rely on information posted on social networking sites.	
25.	Assistant Professor Jen Golbeck, University of Maryland 	***SOT: Golbeck*** *There's so much out there on the web that it's hard for people to find what they want all the time so we take advantage of people's social connections and their behavior online to kind of personalize their access to that so they can find what they need more easily.*	
26.	Privacy Concerns	**Narration:** But that raises the issue of privacy.	
27.	Golbeck on Camera	***SOT: Golbeck*** *And I think we need to train more people to think more carefully about how things stay online once they're put there and to think about the implications years down the road of some of the information they put up now that might seem fun but it can have real implications.*	

28.	Latest Devices	**Narration:** Washington Post writer Ron Peggeraro covers the Internet and technology. He gets to work with the latest devices.	
29.	Rob Pegoraro, Washington Post	***SOT: Pegoraro*** *I think what we're looking at in the future is: what are the things that are going to be possible when you have this device in your pocket that not only get any bit of information on the web but any type of multimedia out there as well. And that's where I think as the connection speeds increase, people are going to be dreaming up interesting or maybe useless uses of this kind of content, this kind of capacity that we don't really know about it right now*	
30.	iPhone applications	**Narration:** Rob Peggeraro's favorite applications right now are called augmented reality…something he sees as growing as the world gets more wired.	
31.	Pegoraro on camera	***SOT: Pegoraro*** *You hold up the phone and the program shows you a view of the world through the phone's camera except then on top of the scenery around you—the buildings, the landscape, whatever—you might see little pointers, labels, captions that point to Internet data about the things around you.*	

32.	FCC Chairman Julius Genachowski	**Narration:** For FCC Chairman Genachowski the future is about much more than gadgets.	
33.	Chairman Genachowski on Camera	***SOT Genachowski*** *Broadband is going to be our platform not only for our economy but our democracy. It's how people are going to participate in their government, it'll be the platform for exchanging ideas. It'll be the platform where the core 1st Amendment idea is around the free flow of expression and the marketplace of ideas will play themselves out.*	
34.		**Narration:** I'm Eileen Wu for the Dot News	