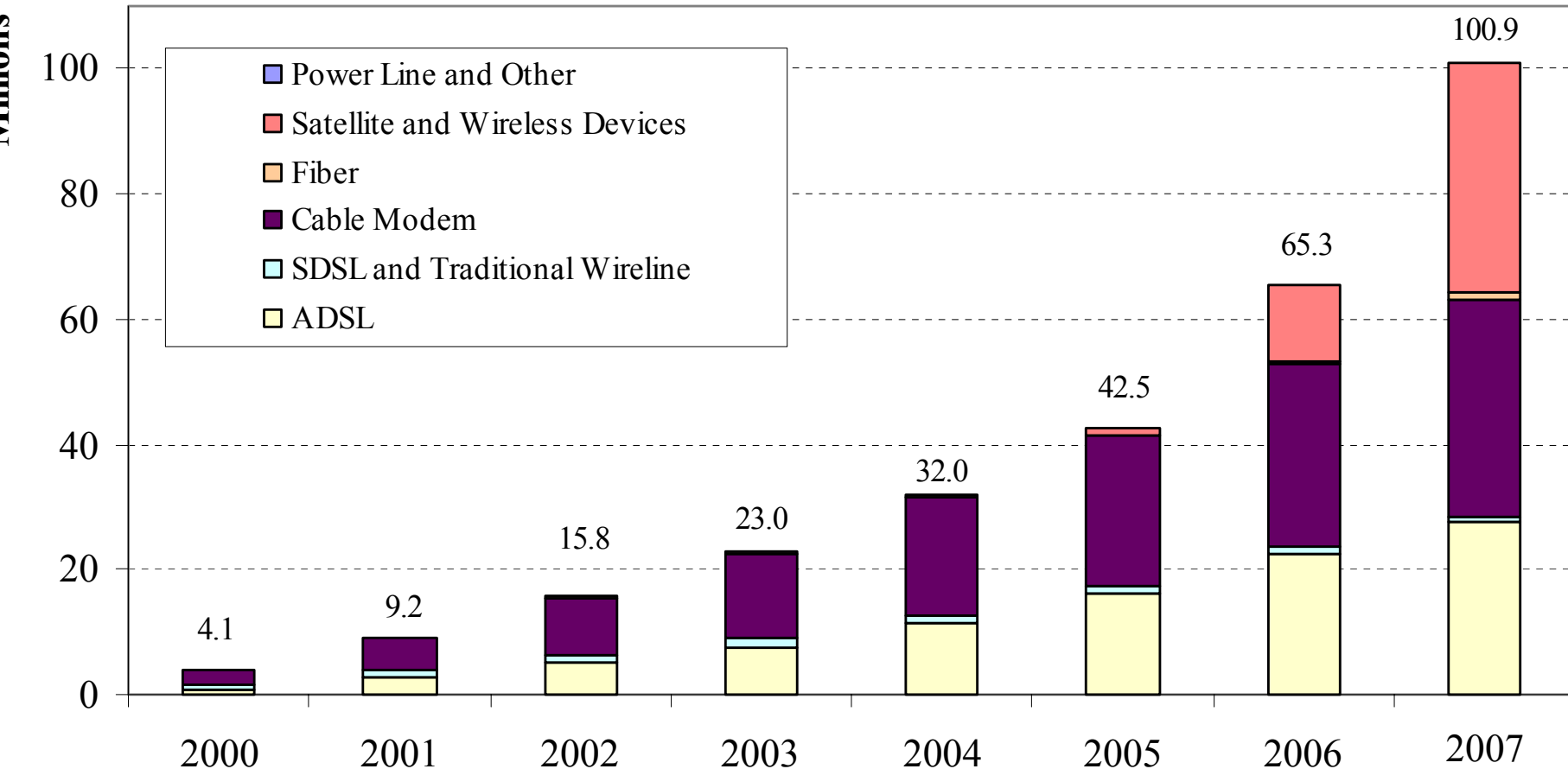


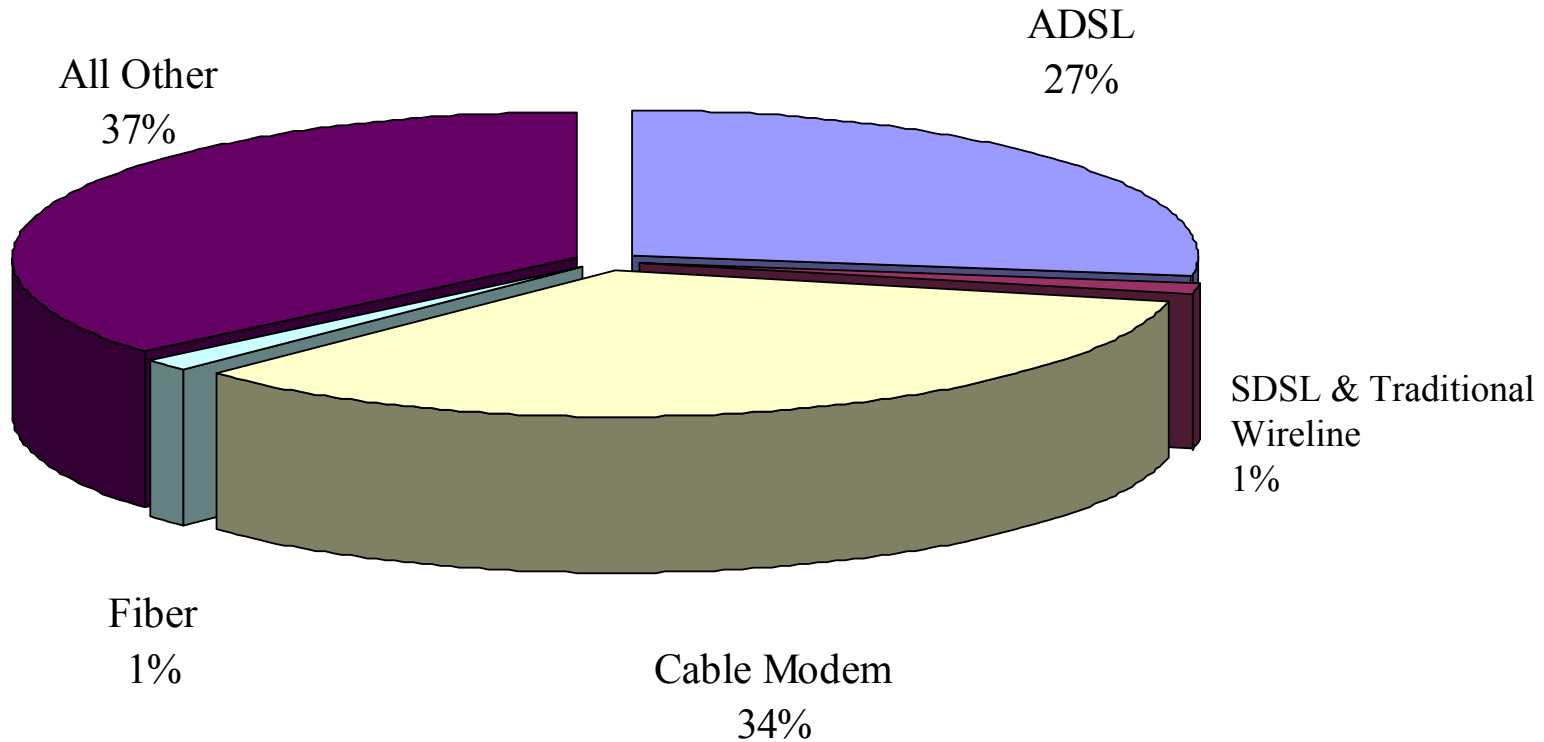


**Collaborative Convergence: User
Empowerment in the Global Digital
Economy
October 2008**

High Speed Line Growth (2000 – 2007)*



High-Speed Lines in the US by Technology as of June 30, 2007



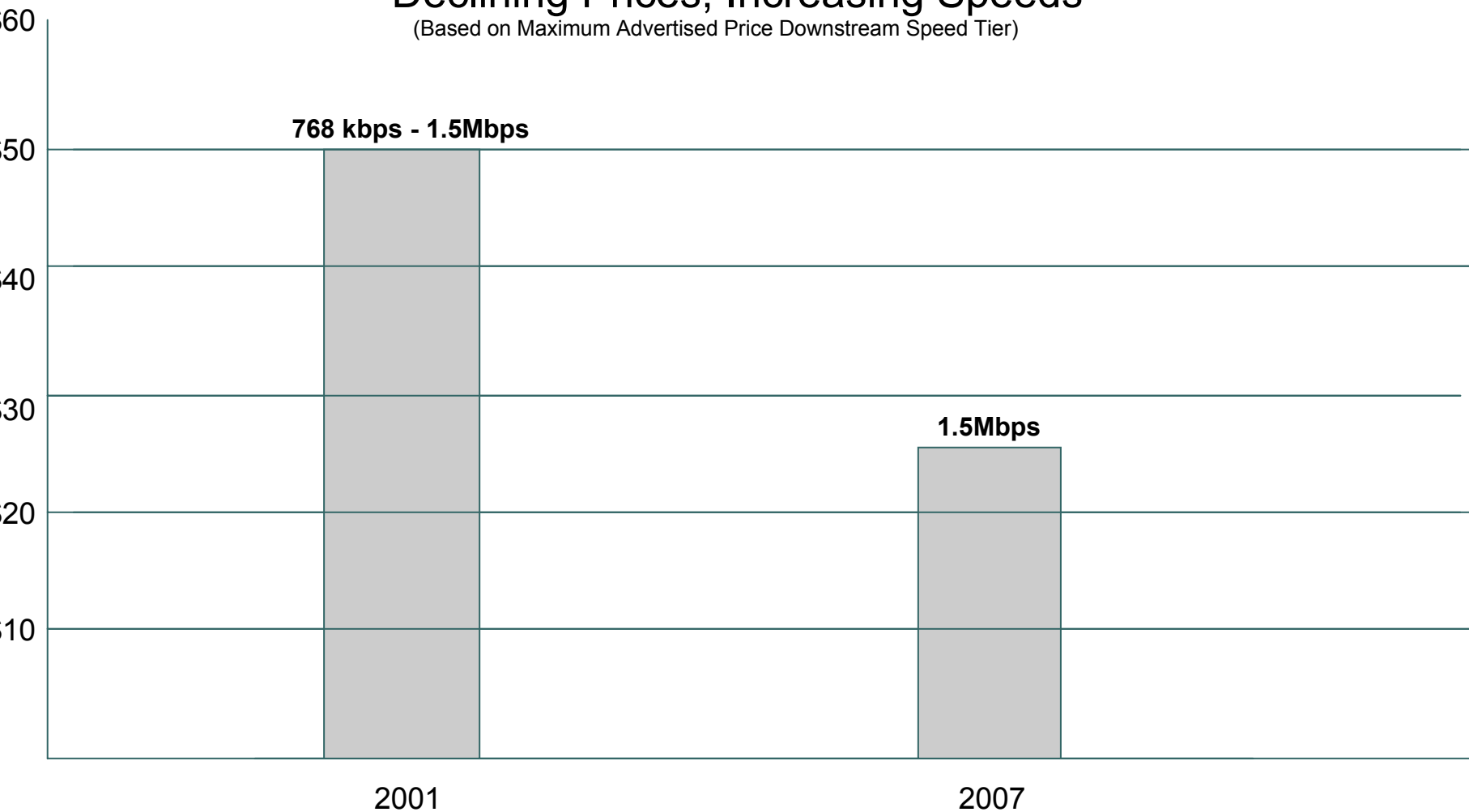
U.S. Investment in Fiber Networks

- Telecommunications companies expect to make \$50 billion in capital expenditures in 2008-2009 regarding broadband investment.
- Verizon has said it expects to invest \$18 billion in net capital from 2004 -2010 in deploying their FiOS network.
- Spending by carriers on telecommunications equipment in 2008:
 - Fiber: \$10.6 billion
 - Industry-wide, spending on fiber-related telecommunications equipment is estimated to grow almost \$13.5 billion annually in the next three years.

Wireline Broadband Prices and Speeds

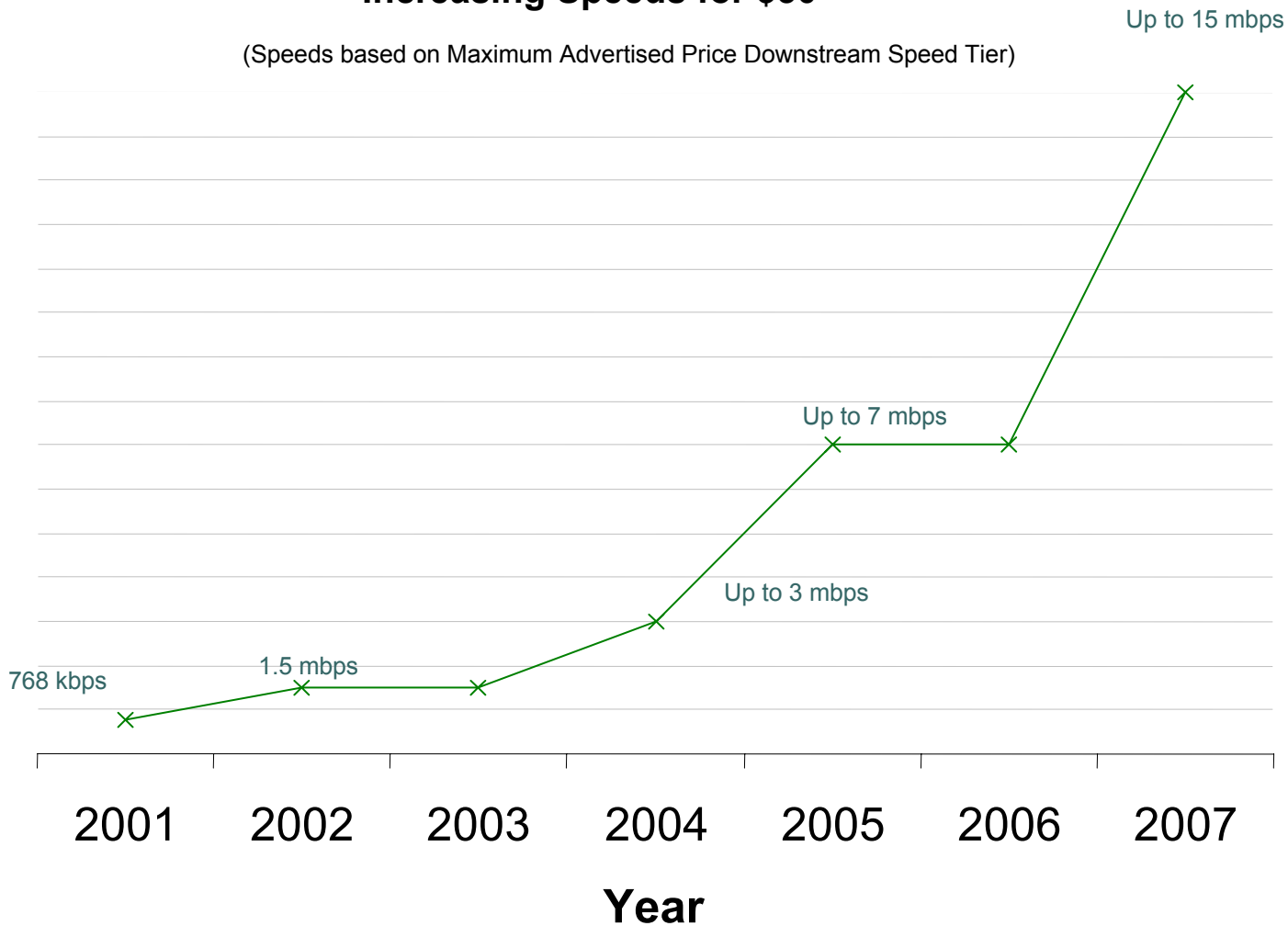
Declining Prices, Increasing Speeds

(Based on Maximum Advertised Price Downstream Speed Tier)



Wireline Broadband Increasing Speeds for \$50

(Speeds based on Maximum Advertised Price Downstream Speed Tier)



Rural Health Care Pilot Program

- \$400 million to deploy broadband health networks
- Reaching over 6,000 health care centers across 42 states and 3 U.S. territories
- Robust connectivity to the Internet and a nationwide backbone

Rural Health Care Pilot Program

- Enhanced funding to help public and non-profit health care providers deploy broadband
- Deployment of state- and region-wide broadband networks for telehealth and telemedicine
- Funds up to 85% of the costs of deploying those networks
- Funds up to 85% of connection costs to Internet2 or National LambdaRail (NLR) dedicated nationwide backbones and public Internet

Rural Health Care Pilot Program

Examples of Applications

- Large-scale networks connecting hundreds of facilities over a multi-state region.
- Small-scale networks providing a critical advanced broadband link for several regional hospitals or clinics.
- Connections to insular areas and isolated regions.
- Networks in states with a severe shortage of health care professionals.

Benefits of a Broadband Healthcare Network

- Clinical care
- Consumer and professional health education
- Public health
- Health administration
- Research
- **Electronic health records**

Promoting an Open Internet

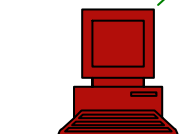
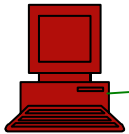
- In 2005, the Commission adopted an Internet Policy Statement that set forth four consumer-based principles:
 - Consumers are entitled to access the lawful Internet content of their choice;
 - Consumers are entitled to run applications and use services of their choice, subject to the needs of law enforcement;
 - Consumers are entitled to connect their choice of legal devices that do not harm the network; and
 - Consumers are entitled to competition among network providers, application and service providers, and content providers.

FCC Affirms Its Authority to Protect Vibrant and Open Internet

USER SEEKING PEER CONTENT



USER/PEER W/ CONTENT



USER/PEER W/ CONTENT



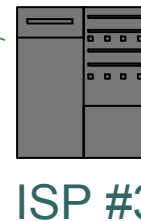
PEER CONNECTIONS TERMINATED WITH FALSE "RESET" MESSAGE



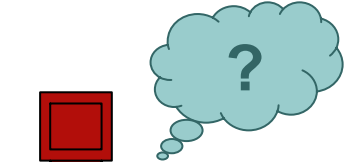
ISP #1



ISP #2



ISP #3



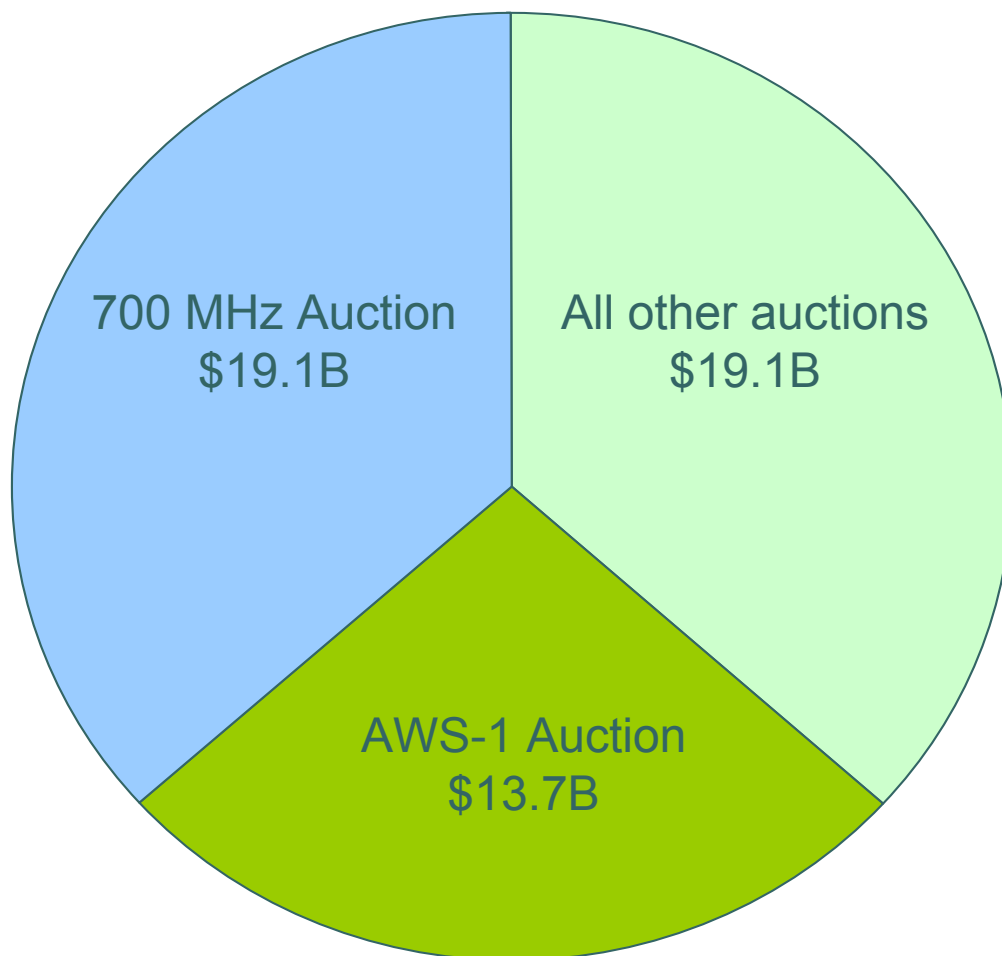
USER SEEKING PEER CONTENT

USER SEEKING PEER CONTENT



All Internet Users Affected

Comparison of 700 MHz and AWS-1 Auction Revenues vs. All Others



Note: 700 MHz Auction revenues do not account for bidding credits. (FCC, April 2009)

700 MHz Auction: Openness Conditions

Consumers will be able to use the wireless device of their choice;

Consumers will be able to download the legal software they want;

Consumers will be able to download the applications they want.

White Spaces

- “White spaces” are un-used portions of television airwaves and have the potential to deliver wireless broadband.
- This summer, the Commission conducted engineering tests that showed prototype white space devices could theoretically operate with minimal interference to TV broadcasters.
- In light of these findings and the potential for white spaces to provide low-cost broadband connections, I have proposed that the Commission consider a plan at our next Open Meeting on November 4.
 - Use of white spaces to provide broadband would occur after the United States’ DTV transition from analog to digital in February 2009.

Free Broadband: AWS-3

- In the United States, there are people who are unable to subscribe to broadband today because of the cost.
- There is a social obligation in making sure everybody can participate in the next generation of broadband services.
- Proposed: that the Commission conduct its next spectrum auction (for AWS-3) with a requirement that the winner offer a life-line basic lower speed service for free.