

A Transatlantic Dialog (with IDATE, France): Gigabit Networks, Kilobit Government?

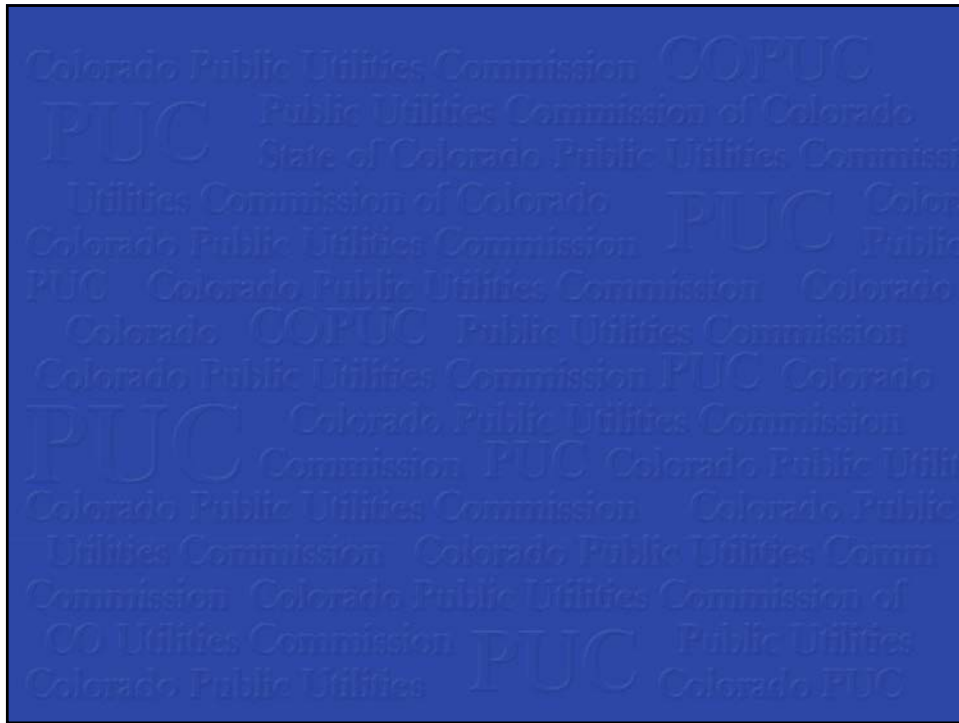
Columbia Institute for Tele-Information

Presentation of
Ron Binz, Chairman
Colorado Public Utilities Commission

Halloween 2008

Caveat

- I am one of three equal commissioners
- My positions are my own
- I am confused by many things and have not made up my mind on much at all
- I don't even agree with some of the things I say
- Good advice: *don't believe everything you think*



**Eli was speaking at a
NASUCA conference and
was using a new-fangled
device called a laptop
computer.**

**Eli set up the computer with
software that automatically**

**the balance of the speech
during the allotted time.**

**This meant that, if
interrupted, he had to speed
up to cram everything in.**

to speaking fast.

**However, it was a different
matter for his audience, who
were trying to listen and
simultaneously decode his
accent.**

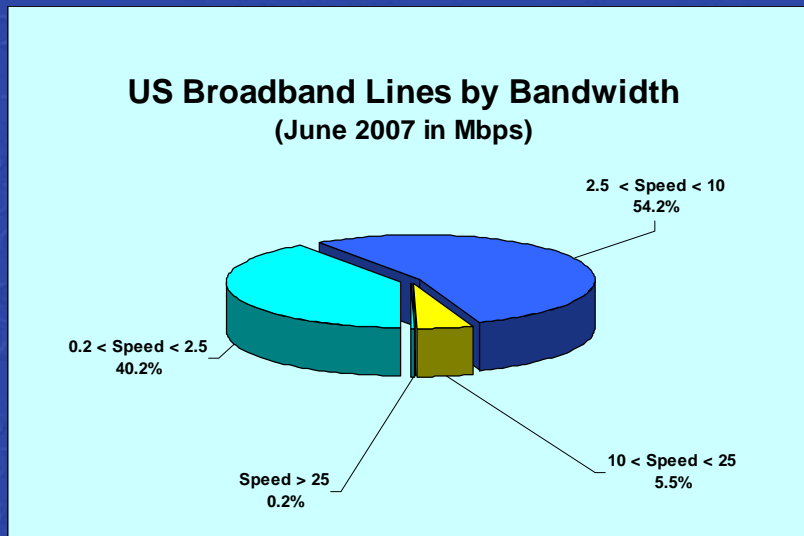
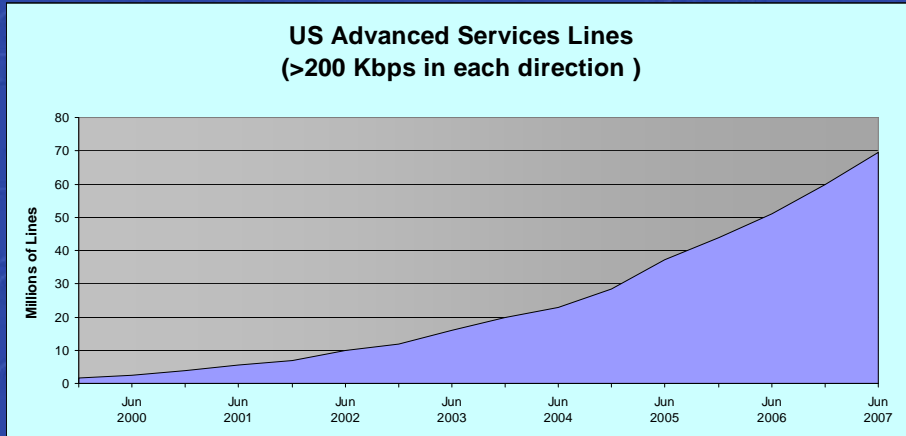
They were reduced to waving

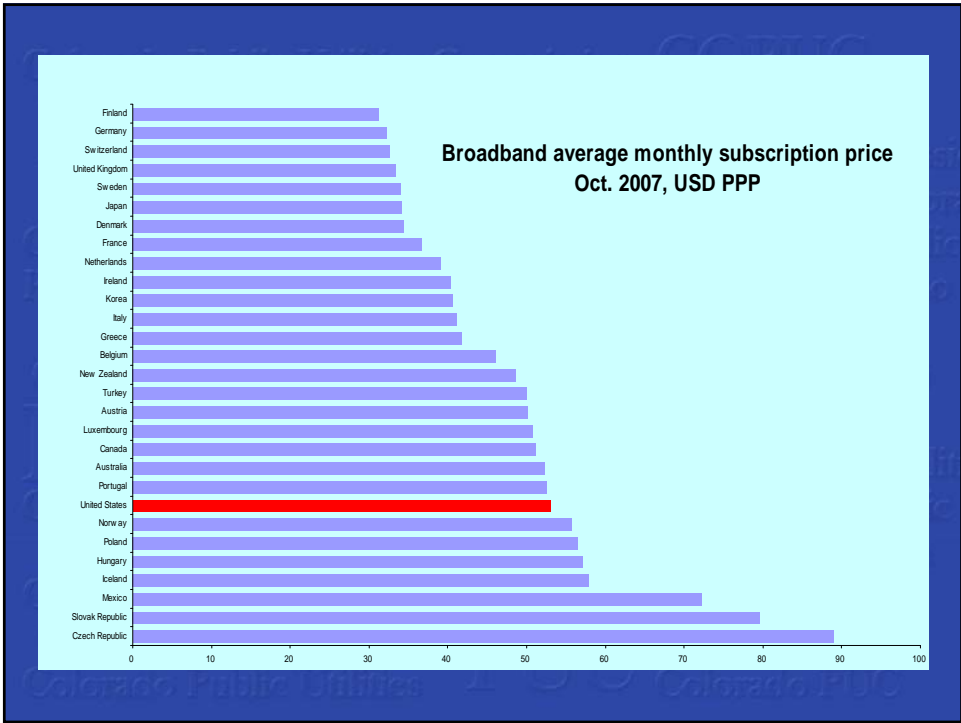
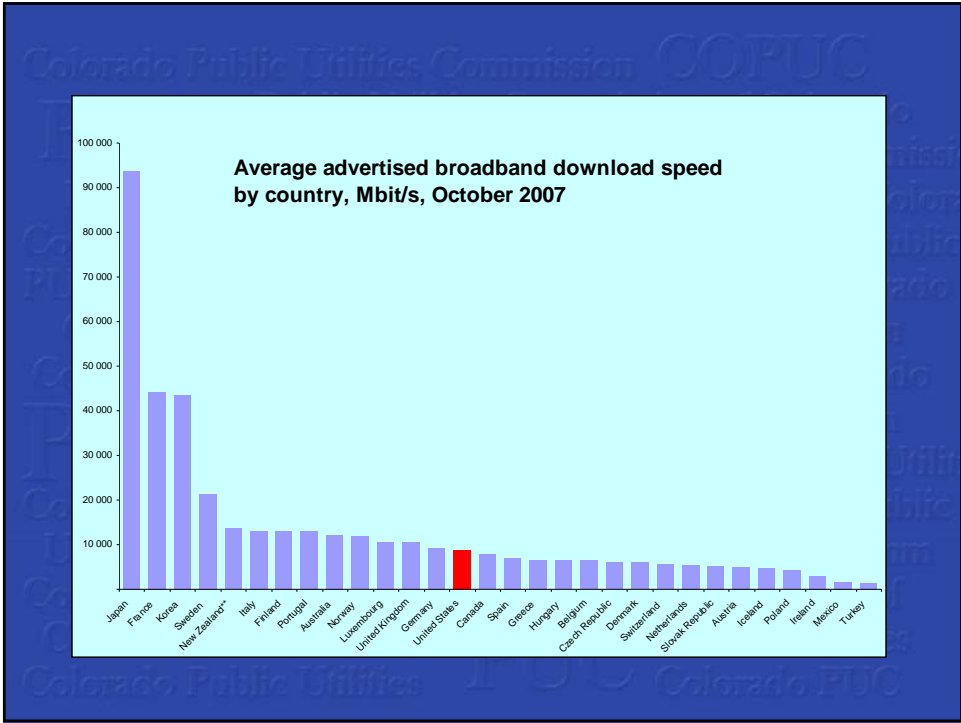
**Eli, thanks for
twenty five years
of CITI.**

**Major Characteristics of
US Broadband Policy**

- BB penetration ranks 15th in OECD report
- Based on inter-modal competition
- Mainly duopolistic: consists almost entirely of incumbent and telco and cable carriers, especially for small users
- Decreasing number of intra-modal (telco) competitors

US Broadband Lines





News in Broadband Competition

- Growth of FIOS
 - FTTH, 50MB BB
- Growth of U-verse
 - FTTP, FTTH, IPTV
- Bundling Cable, BB, Phone
- 700 Mhz Auction
- Campaign for use of white spaces

Verizon's FIOS Offering

Verizon FiOS Internet Service Plans and Speeds		
Plans (1-year agreement)	FiOS <i>with existing</i> Verizon phone service	FiOS <i>without</i> Verizon phone service
Fast Up to 10 Mbps/2 Mbps	\$42.99/month First month FREE	\$47.99/month First month FREE
Faster Up to 20 Mbps/5 Mbps	\$52.99/month First month FREE	\$57.99/month First month FREE
Faster Plus Up to 20 Mbps/20 Mbps	\$64.99/month First month FREE	\$69.99/month First month FREE
Fastest Up to 50 Mbps/20 Mbps	\$139.95/month	\$144.95/month
	Check Availability	Check Availability

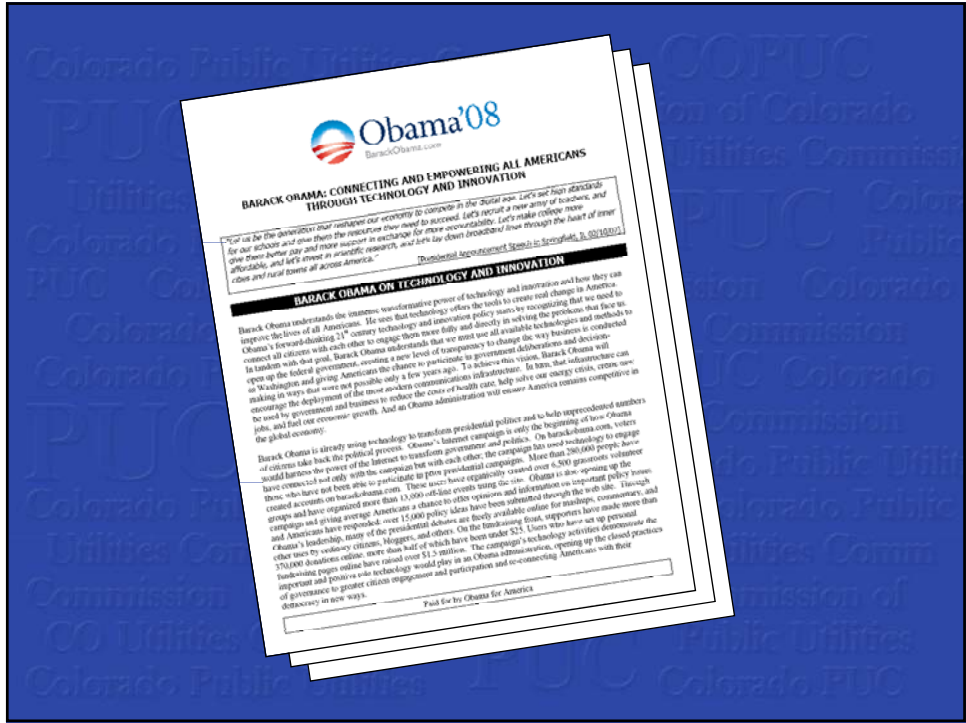
AT&T's U-verse Offering

Benefits Comparison

	Express Downstream up to 1.5 Mbps Upstream up to 1 Mbps	Pro Downstream up to 3 Mbps Upstream up to 1 Mbps	Elite Downstream up to 6 Mbps Upstream up to 1 Mbps	Max Downstream up to 10 Mbps Upstream up to 1.5 Mbps
Ideal for:				
Emailing	●	●	●	●
Downloading Music	●	●	●	●
Sharing Photos		●	●	●
Internet gaming			●	●
Online Conferencing			●	●

Recent Developments in NN

- FCC Comcast Order
- Role of NN in Presidential and Senate campaigns



Protect the Openness of the Internet: A key reason the Internet has been such a success is because it is the most open network in history. It needs to stay that way. **Barack Obama strongly supports the principle of network neutrality to preserve the benefits of open competition on the Internet.** Users must be free to access content, to use applications, and to attach personal devices. They have a right to receive accurate and honest information about service plans. But these guarantees are not enough to prevent network providers from discriminating in ways that limit the freedom of expression on the Internet. **Because most Americans only have a choice of only one or two broadband carriers, carriers are tempted to impose a toll charge on content and services, discriminating against websites that are unwilling to pay for equal treatment.** This could create a tiered Internet in which websites with the best relationships with network providers can get the fastest access to consumers, while all competing websites remain in a slower lane. Such a result would threaten innovation, the open tradition and architecture of the Internet, and competition among content and backbone providers. It would also threaten the equality of speech through which the Internet has begun to transform American political and cultural discourse. Barack Obama supports the basic principle that network providers should not be allowed to charge fees to privilege the content or applications of some web sites and Internet applications over others. This principle will ensure that the new competitors, especially small or non-profit speakers, have the same opportunity as incumbents to innovate on the Internet and to reach large audiences.

MCCAIN & PALIN COUNTRY FIRST REFORM • PROSPERITY • PEACE

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Technology

John McCain has a broad and cohesive vision for the future of American innovation. His policies will provide broad pools of capital, low taxes and incentives for research in America, a commitment to a skilled and educated workforce, and a dedication to opening markets around the globe. He's committed to streamlining burdensome regulations and effectively protecting American intellectual property in the United States and around the globe.

Transformative information and communications technologies permeate every aspect of our daily lives. In the last decade, there has been an explosion in the ways Americans communicate with family, friends, and business partners; shop and connect with global markets; educate themselves; become more engaged politically; and consume and even create entertainment. America has led the world into this technology revolution because we have allowed innovation to take root, grow, and prosper. Nurturing technology and innovation is essential for solving the critical problems facing our country: developing alternative fuels, addressing climate change, stopping the spiraling expense of health care, and better educating our children.

John McCain is uniquely qualified to lead our nation during this technological revolution. He is the former chairman of the Senate Committee on Commerce, Science and Transportation. The Committee plays a major role in the development of technology policy, specifically any legislation affecting communications services, the Internet, cable television and other technologies. Under John McCain's guiding hand, Congress developed a wireless spectrum policy that spurred the rapid rise of mobile phones and Wi-Fi technology that enables Americans to surf the web while sitting at a coffee shop, airport lounge, or public park.

To maintain American leadership in the world, John McCain believes we must nurture the conditions under which entrepreneurs can prosper and the American people can reap the rewards.

As President, John McCain would:

- Encourage investment in innovation
- Develop a skilled work force
- Champion open and fair trade
- Reform intellectual property protection
- Keep the Internet and entrepreneurs free of unnecessary regulation
- Ensure a fully connected citizenry

John McCain Will Encourage Investment in Innovation

John McCain Has Fought to Keep the Internet Free From Government Regulation

The role of government in the Innovation Age should be focused on creating opportunities for all Americans and maintaining the vibrancy of the Internet economy. Given the enormous benefits we have seen from a lightly regulated Internet and software market, our government should refrain from imposing burdensome regulation. John McCain understands that unnecessary government intrusion can harm the innovative genius of the Internet. Government should have to prove regulation is needed, rather than have entrepreneurs prove it is not.

John McCain will Preserve Consumer Freedoms. John McCain will focus on policies that leave consumers free to access the content they choose; free to use the applications and services they choose; free to attach devices they choose, if they do not harm the network; and free to choose among broadband service providers.

When Regulation Is Warranted, John McCain Acts. John McCain does not believe in prescriptive regulation like "net-neutrality," but rather he believes that an open marketplace with a variety of consumer choices is the best deterrent against unfair practices. John McCain has always believed the government's role must be rooted in protecting consumers. He championed laws that penalized fraudulent marketing practices, protected kids from harmful Internet content, secured consumer privacy, and sought to minimize spam. When businesses struggled to assess the legal role of electronic signatures, John McCain led legislative efforts to ensure that these Innovation Age signatures were legally sufficient so that e-commerce could thrive. His record reflects the careful balance between protecting the essential elements of the Internet and securing the Internet as a safe tool of commerce, education and entertainment for our citizens. Offering simple common sense solutions to real problems is at the core of the McCain's innovation agenda.

Thanks for the invitation.

I look forward to our discussions.

Challenges to Regulation

- Primary focus must be on regulatory topology in the longer run
 - cf: energy regulation
- Work to maintain openness of evolving network