



CENTER FOR ADVANCED COMMUNICATIONS POLICY

10 Telecommunication and IT Policy Issues

Introduction to Public Policy
PUBP 6001

Helena Mitchell
Executive Director
Center for Advanced Communications Policy
October 24, 2005
www.cacp.gatech.edu



CACCP Overview

- A resource to national, regional and state entities on advanced and emerging communications and technology policy
 - A **Neutral Authority**
 - Assessing legislative and regulatory issues
 - Identifying future options
 - Providing a clearer understanding of the ever changing technology landscape



Communications Policy Projects

- Provide objective analyses in appropriate local, state and national technology policy arenas
 - **TelePAC** Subcommittee on New Technologies
 - Municipal Telecom Infrastructure -- **MuniTIP**
 - Political Implications of Digital Government
 - **Digital Georgia**

- Filings at Federal Communications Commission



1. Broadband

- Advanced services
- High-speed services
- Deployment and increased access and applications
 - last mile and last meter
 - cable, DSL, fiber to the home



2. Emergency Response Technologies

- Emergency Communications
- Public Safety Networks
- Emergency Alert System
- E 9-1-1
- Federal, state and local measures



3. Spectrum Allocation

- Is spectrum a limited natural resource?
- Current uses and management
- Potential uses and interference issues
- Competing uses by various stakeholders
- Government vs.. economic development



4. Technology Shifts

- Analog to digital
- Digital television
- Instructional Television Fixed Services
- Ultra-wide band services
- Incentives to promote economic growth



5. Wireless Communications

- Wireless connectivity options
- Licensed vs. unlicensed bands
- WiFi (802.11)
- Bluetooth
- 3G, 4G and beyond
- Cell/PCS technologies



6. Affordability of Technologies

- Universal access
- Awareness/access/application
- Enabling tools for economic development
- Lower costs increased efficiency
- Issues of (broadband) information infrastructures
- Non access issues for people with disabilities, rural areas, poorly served, second language



7. The E's and Social Impacts

- E-learning
- E-health/medicine
- E-government
- Tele-commuting
- E-fficiency, E-ssential, or E-xclusion?



8. Intellectual Property

- Protection of IP (patents, trademarks, copyrights)
- Fair use expected by purchasers of the material
- Digital context: copies are identical to original



9. New Technologies: A look at the horizon

- Ad-hoc networking
- WiMax; location-aware technologies
- Hot spots and dead zones
- Device to device
- Integrity, privacy and security of data systems



10. New Thinking: about technologies

- Pool of technology workers
- Leveraging resources of different businesses, cities, and institutions
- What new technologies will change the debate?
 - what is essential vs. what is enough?
 - Is it a national, state or local issue?
- 2005 and beyond: who will participate and who will not?