



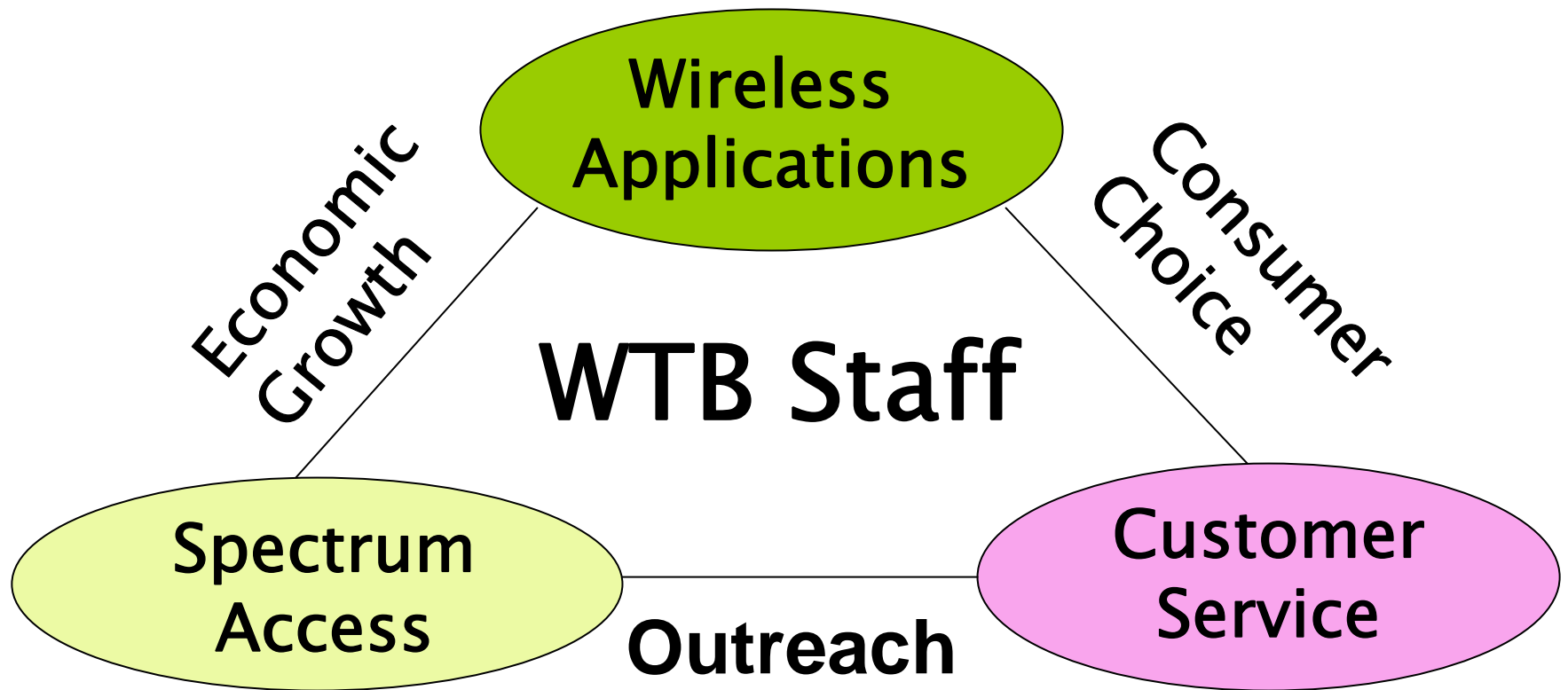
Wireless Telecommunications Bureau

Wireless Telecommunications Bureau

Agenda Meeting
January 13, 2005



Mission for WTB





2004 Goals Met

- ✓ Resolve Interference to **800 MHz** public safety systems
- ✓ Adopt Transition to **Broadband at 2.1 and 2.5 GHz**
- ✓ Move Toward Auction of **3G Spectrum**
- ✓ Restructure **Airborne Communications** services
- ✓ Facilitate Deployment of **Rural Services**
- ✓ Further Development of **Secondary Markets** in Spectrum

2004 Goals Met

- ✓ Issue **Ninth Annual CMRS Competition Report**
- ✓ Complete **Nationwide NEPA/Tower Siting Programmatic Agreement**
- ✓ More **Streamlining and Harmonization** of Service Rules
- ✓ Continue **Spectrum Auctions and Audits**
- ✓ **Public Forums**



Q: How DO We Do It?
A: Modernization.

Universal Licensing System

- ❑ WTB administers **3.2 million licenses**.
- ❑ In 2004, WTB processed **more than 545,000 applications**.
- ❑ **Electronic autoprocessing** where appropriate can yield extremely rapid reviews.
- ❑ New **e-mail notification to public safety and governmental licensees** helps ensure proper maintenance of these licenses.

Q: How *Do We Do It?*
A: Modernization.

Speed of Disposal

- Handled **90% of matters** in **under 90 days**.
- 50% fewer applications remained pending** at the end of 2004 than at the end of 2003.
- Reduced overall backlog by 39%** to under 1% of annual workload.

Auctions Infrastructure

- Advancements in auctions software in 2004 will permit **more sophisticated bidding arrangements** this year.

Training

- Enhanced our ability to serve licensees and the public effectively and efficiency
- Personal Development Plans are now in effect for all staff.



Bringing Spectrum to the Marketplace

6 Auctions
\$284,932,345
525 Licenses

- **24 GHz**
New fixed wireless services
- **900 MHz**
Improved SMR Coverage
- **MVDDS**
500 MHz nationwide
- **DBS**
Enhanced western coverage
- **FM Broadcast**
258 new stations
- **AMTS**
Enhanced coastal coverage

Spectrum Policy for 21st Century Consumers

- ❑ Assignment and allocation policies should **promote the greatest range of services**, options, and creativity to deliver what consumers want.
 - Spectrum for 3G Services
 - Broadband Radio Service/Educational Broadband Service
 - 800 MHz Band Reconfiguration
 - Air-Ground Services
 - 3650 MHz

- ❑ Service rules should **encourage innovation and investment**.
 - Rural Services
 - Secondary Markets



Effective Spectrum Policies Yield Results

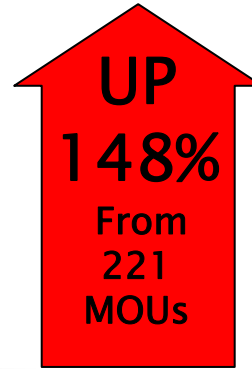
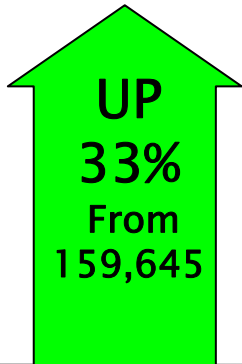
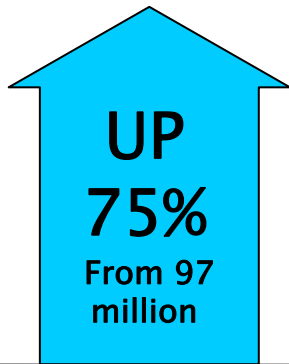
170 Million
Subscribers
in 2004

212,186
Jobs in
2004

156 Billion
Invested as
of 2004

548 Average
MOUs/month
in 2004

Price per
minute
9¢
2004

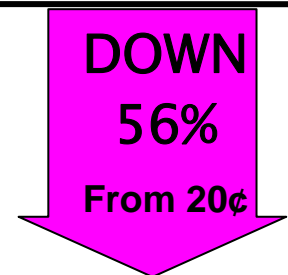


Subscribers

Jobs

Capital
Investment

Min. of
Use



Wireless Broadband Comes of Age

- ❑ Spectrum for **3G** and more functional band plans for **Broadband Radio Service** and **Educational Broadband Service** (fka MDS and ITFS) will fuel new high-speed wireless options for consumers.
- ❑ **Greater opportunities** for licensees to provide broadband services, including in **rural markets**, through **flexible rules** and allowing **new technologies** (e.g., software-defined radio, cognitive radio).
- ❑ Roll-out of mobile broadband services, such as EV-DO and UMTS, increased. Carriers have committed **greater capital investment in wireless broadband.**

Wireless Broadband Comes of Age

- ❑ New spectrum at **3650 MHz** is an option to create broadband licensing opportunities with lower entry costs.
- ❑ The proposed band plan for **18 GHz** will help bring new fixed services to market.
- ❑ New flexible service rules for virtually unused spectrum at **37 GHz and 42 GHz** will allow the development of new broadband services.

Competition Heats Up

- ❑ **Wireless Local Number Portability** has allowed over 7.5 million consumers to keep their phone number when they switched wireless carriers.
- ❑ The trend to “go wireless” continued. More than 700,000 consumers “**cut the cord.**”
- ❑ Wireless **data revenues** for the first half of 2004 exceeded \$2 billion, **up 192 %** over the first half of 2003.
- ❑ **Nationwide Programmatic Agreement** on tower siting and **Voluntary Best Practices** will speed deployment to consumers while ensuring that environmental and historic issues are addressed.
- ❑ Reviewed **major transactions**, such as Cingular–AT&T Wireless.

Homeland Security for the 21st Century

- ❑ First responders will be relieved of interference to their radio communications systems by the **800 MHz band reconfiguration**.
- ❑ Continued working to resolve **E911** accuracy and deployment issues to provide the public with more reliable access to emergency services.
- ❑ **Interoperability of public safety spectrum** was an important focus – WTB collaborated closely with the FCC's Office of Homeland Security and the SAFECOM Program at the US Department of Homeland Security.

2005 Policy Goals

Spectrum and Broadband Policy

- ❑ Develop rules for additional **3G spectrum** blocks
- ❑ Implement **Spectrum Relocation Trust Fund** legislation
- ❑ Review use of “**white space**” at **900 MHz**
- ❑ **New allocations** to facilitate broadband wireless above 5 GHz
- ❑ Further development of **Broadband Radio Service** and **Educational Broadband Service**
- ❑ **Facilitate transition of 700 MHz** for new commercial and public safety wireless broadband uses

2005 Policy Goals

Competition

- ❑ Explore ways to improve **wireless service quality** (dead zones, indoor, underground, airborne)
- ❑ Ensure policies reflect increasing **intermodal** competition (e.g., merger review)
- ❑ Reform **universal service** and **intercarrier compensation** mechanisms to better reflect realities of wireless services
- ❑ More improvements on **tower siting processes**
 - Finalize working agreement with Fish and Wildlife Service
 - Complete review of Migratory Bird NOI
 - Revise rules on tower marking and lighting

2005 Policy Goals

Homeland Security

- Implement **800 MHz** band reconfiguration
- Develop **interoperability** solutions
- Advance **E911** accuracy and deployment
- Prepare **reports to Congress** on public safety issues under new legislation

Modernization

- More **ULS upgrades** will improve filing and access to information
- Increase speed of disposal** beyond current goal
- Launch **Integrated Spectrum Auction System** to allow more sophisticated bidding

