

# Regulatory Challenges with WiMAX

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# Perspectives

- Regulation – is it a BOON or a BANE
- 3 Perspectives
  - Regulatory body – TRAI
  - Service Providers – AirCel
  - WiMAX Equipment vendors – Motorola, Aperto



# Questions - Regulators

- Recommendations from TRAI towards 3G, WiMAX
  - Who is currently using the Spectrum?
  - What incentives will motivate current users to release the Spectrum
  - FDD vs TDD Licenses
- How should the licenses be awarded
  - Auction, National Interest, Spectral Efficiency
  - Role of Foreign Operators
  - Technology-neutral spectral allocation



# Questions – Service Providers

- Usage of Licensed vs Unlicensed Spectrum
- How do Service Providers intend to generate revenue?
  - Consumers are getting used to “Free” Ad-Supported services
  - Will they recover the cost of investment in Spectrum
- Tariffs
  - Cellular tariffs in India are the lowest in the world. Will it be the same for **WiMAX**?
  - Flat-rate monthly tariffs vs Usage-based tariffs.
  - QoS/Differentiated service tariffs
  - “Net-neutrality, “saturated” markets (S.Korea)



# Questions – WiMAX Vendors

- Interoperability Issues
  - Frequencies, Standardization...
- Killer Applications
  - Voice, Video, IPTV, Streaming
- End-user Devices
  - Laptops, Cellphones?
  - Processing capability, Power consumption



# Questions - General

- Will WiMAX be the Technology that addresses the Digital Divide
  - How will this change the Information Access, Education, Employment landscape
- Who will provide the Services
  - Today's Mobile carriers (BSNL, Reliance). – Will they cannibalize the 2G/2.5G/3G services
  - Broadband Providers – Cable, DSL
  - 3<sup>rd</sup> party emerges?



# Panel Members

- Mr. Sudhir Gupta (TRAI)
- Mr. Pankaj Chaturvedi (AirCel)
- Mr. Sandeep Gupta (Motorola)
- Mr. Rajendra Yadav (Aperto)

