Successful Strategies To Face The Future Challenges Of Various Stakeholders In WiMAX Services In India

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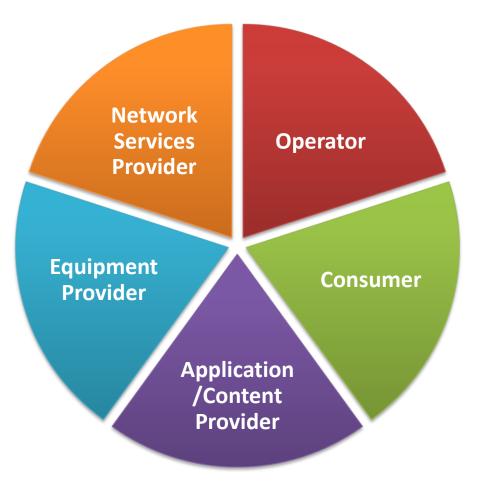


Agenda

- WiMAX Stakeholders
- Challenges for WiMAX stakeholders
- Successful Strategies
- GTL's offerings
- Conclusion

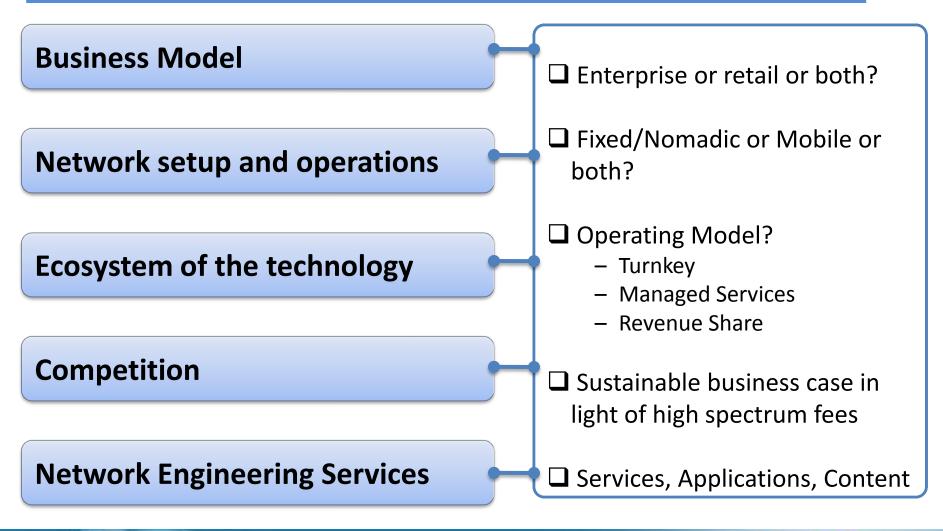


WiMAX Stakeholders





Challenges for WiMAX stakeholders



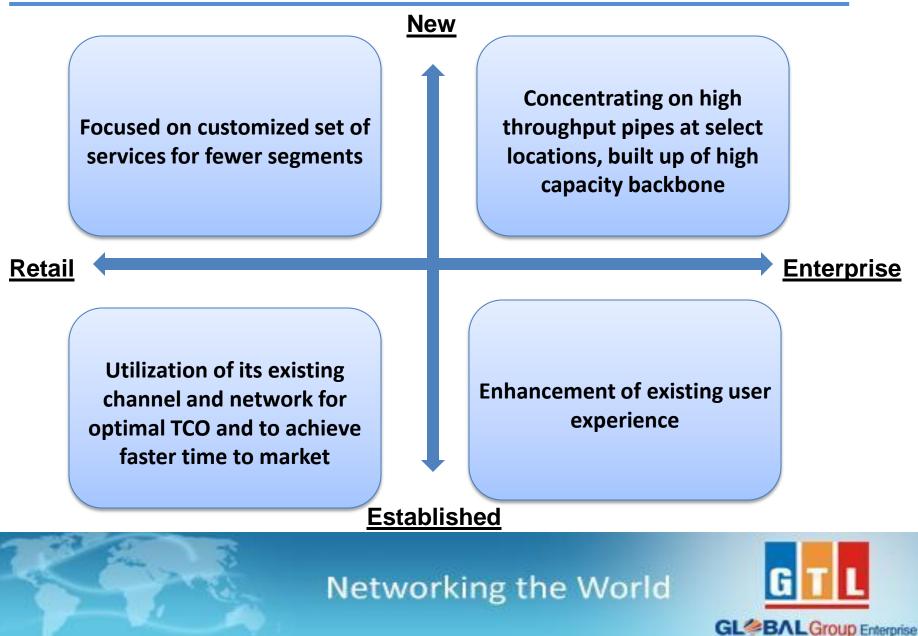


Strategies to overcome these challenges





Business models for a WiMAX operator



WiMAX – Enabler for new business models

- Commercially available NOW
- **Existing Ecosystem**
- An All-IP Solution
- **Open Standard for Service Innovation**
- Last Mile as well as Backhaul
- 🗴 Fixed, Nomadic, Mobile

With 802.16m:

- Increased Coverage & Spectral Efficiency
- Increased Capacity for Data and VolP
- Lower Latency and QoS Enhancements
- Interworking with other Wireless Networks
- Power Conservation



Networking the World

593 deployments

149 countries

621 million consumers

219 certified products

GL[@]BAL Group Enterprise

75 certified product vendors

Solutions on the network side

Network setup

Backhaul – MW radios with Gigabit data rates available

Hybrid Radio Systems

Dark fibre or copper and partnership with Utilities

Reduce costs

Share RAN and Backhaul with operator/independent infra co
Create synergies with existing passive infrastructure
Transfer operating risks by way of Managed Services
Consider Energy Management – to reduce OPEX



WiMAX Technology Ecosystem

Taking cues from the Wi-Fi success story

- Chipset level integration in desktops, laptops and handsets by default
- S itself includes device drivers and connectivity application
- Plug and play

Need for more WiMAX enabled devices

- Handheld devices
- ➢ WiMAX cards in T.V.
- Single device that works on multiple networks using quad band radios

Demonstrate interoperability between devices (type & make)

Demonstrate applications - Mobile TV, VoIP, VOD



Strategies to overcome competition

Broadband in India still an underserved market

- Broadband connections only 8.75 mil
- Broadband 0.2 million/month versus Mobile growth 18 million/month
- Broadband penetration just 0.74% versus Teledensity 52.74%

- TRAI

GL BALGroup Enterprise

Carve out specific market segments

- Fixed/nomadic broadband
- Class B & C cities
- Minimum 256 kbps on the downlink
- Retail & Enterprise both
- 🕨 Data

Future roadmap

- Take best of both worlds Data & Voice
- Build in flexibility at minimal upward costs for migration to 16m

Service differentiation with applications – not just a bit pipe

Network Engineering Services in WiMAX

Focused groups – Centres of Excellence

Training in WiMAX technology, tools and services

Use experience from global operations

Train and maintain multi-skilled resources



WiMAX – A Service Enabler



GTL's offerings

Retail or Enterprise: GTL's presence in all circles in India

Experience of Planning, deploying & servicing more than 15 WiMAX networks across the globe

KPI/SLA linked Managed Services to share operating risks

Existing ready-to-share telecom infrastructure, business models for active & passive sharing



Conclusion

Positioning of WiMAX has to be different from cellular

Focus on segments needing:

- 🕅 High
- Stable
- Nomadic throughput

Technology choice based on consumer demand & requirements rather than only perceived technical benefits



