Out of Box Approach to Technology Seeding

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GL BALGroup Enterprise

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Agenda



Subscriber Expectations

Operator Needs & Expectations

Market Challenges

Business Drivers

Imperatives for New Technology

WiMax Academy & Lab

Ecosystem Balance

In Conclusion



ENTERPRISE CUSTOMER

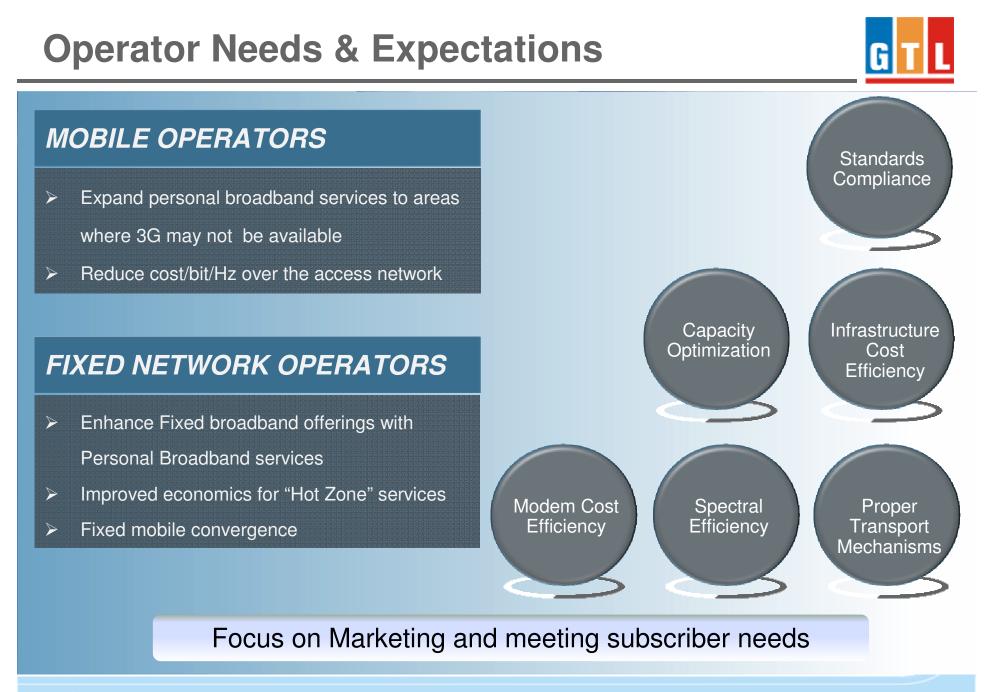
- Guaranteed bandwidth
- Analog T1, E1 extensions
- Burstable bandwidth
- Bandwidth on demand

METRO MOBILITY CUSTOMER

- Mobility within a large area (>100 Km)
- Cost effective ease of use
- Should work with any IP network

STATIONARY CUSTOMER

- Protection against Bandwidth hogs
- Safeguard against theft of service and Denial of Service attacks



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India Market Challenges

Disruptive Cost Points required

- Driven by sub-\$10/month ARPU for mass market deployment
- Sub-\$100 \$150 CPEs required

Performance breakthroughs needed

- Near Line of Sight for ease of installation
- Long reach of WiMAX for Rural applications to leverage existing/ proposed cellular/ USO infrastructure

Availability of ultra-low cost PCs

 PC penetration hampered by the lack of sub-\$300 full featured PCs

Market confusion – standards war

"d" vs "e" vs ".20"



WiMAX Business Drivers in Indian Market



Low broadband penetration in the rural/sub urban areas

Demand for internet connectivity from SOHO is growing rapidly

Can't be met effectively by the existing wireline technologies

Cost effective service availability to subscribers

Need for high Bandwidth

Low Tariffs





Any new technology goes through an evolution curve; demanding regular upgrades and smooth interoperability across platforms

Infrastructure vendors, CPE Manufacturers and Application Developers need a neutral platform to ensure testing and smooth integration

Live Networks are never a playground for testing as it could have devastating effects on performance

Skills, Tools and Processes for Testing are difficult to assimilate and not cost effective to maintain by each network operator

Going forward post deployment, O&M processes need to be streamlined and customized to suit each Operator needs



Imperatives for Outsourcing



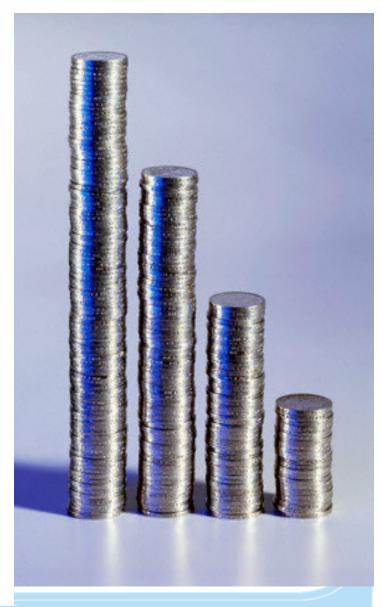
Cost of testing should be limited to usage and not creation and upkeep

Network size & complexity is rapidly increasing with new multi – vendor, technology & version networksbecoming increasingly common

Finding & retaining qualified *testing engineers* who manage complex test profiles; a huge challenge

Process creation should be the **Outcome** of testing and not just a Test report of what passed and what did not

Increasing competition necessitates service differentiation - Leading to *Applications customized to suit Operator specific needs* - Pretesting a requisite



Applications Development Roadmap





SMEs require "broadband on the go" solutions that provide:

Emerging youth market requires mobile broadband for:

Education, Entertainment, Gaming, Video and Daily Communication

Parents want location based services to monitor children's activity

- competitive advantage
- more time for customers



Adoption of e-governance, tele-education, tele-medicine by government and business

Major need to have high level of QoS



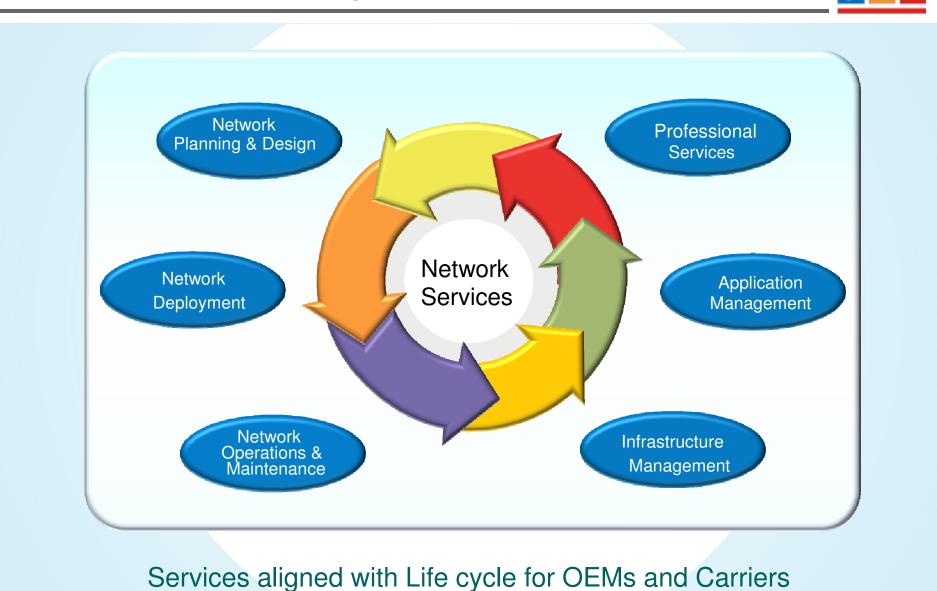


| \$ 1.7 bn | Balance sheet size | |
|-----------|----------------------------|---|
| \$ 601 mn | Revenue | The state of the |
| \$ 2 bn | Market Cap* | Networking |
| 21 Years | Years of service | the world |
| 35 | Countries around the globe | |
| 45 | Cellular Networks | |
| 36000 | Cell Sites | ⊘ GTL's Network Services Geared to serve all your networking Lifecycle needs |
| 24 MN | Served Subscribers | |
| 12,675 | Dedicated Employees | |

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Network Services – Key Verticals



WiMAX Centre of Excellence





Mission

To be the best-in-class, professionally managed Services organization delivering Cost - competitive End to End Systems Integration Services including Managed Services support for Wireless Broadband operators globally

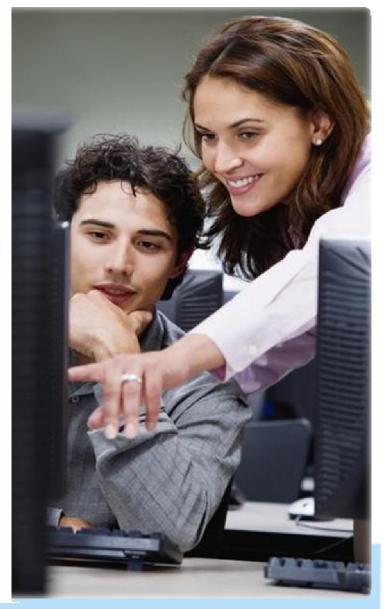
WiMAX Academy

World-class training facility that would include theory and practical training from expert trainers

Features:

- Highly accomplished Subject Matter Expert instructors
- Flexible content, scheduling, processes
- Foundation courses and technology overview for the non-technical staff
- Core, Access Network and Antenna Technology training for engineers and technical managers
- Discussion Forum
- Library / Data Bank





WiMAX Training Modules (ILT)

WiMAX Essentials

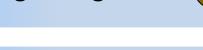
Exploring WiMAX

Mobile WiMAX Access Network Signalling

Advanced Antenna Technologies for WiMAX

WiMAX Access Network Planning & Design

Mobile WiMAX Core Networks





Management & Sales

WiMAX Network Engineer

Sr. WiMAX Network Engr













Academy - Value Proposition



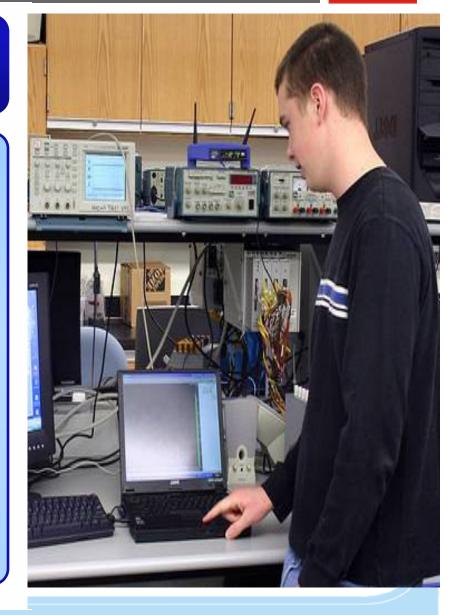
| ↑ Innovation in strategies & | oroducts | Job motivation and satisfaction 🛧 | |
|---|--|--|--------------------------|
| ↑ Capacity to adopt new tech | nnologies | Recognition and morale boost 🛧 | |
| ↑ Productivity, Quality & Efficiency | ciency | Creativity & innovation 🛧 | |
| Employee turnover | | Responsibility 🛧 | |
| Time and cost | Employer | Employee | Longevity 🛧 |
| ↑ Financial gains | Benefits | Benefits | Better career |
| By getting trained By getting trained on their own by Experts | ROI | Staying | Employee |
| | nui | Competitive | Technology competence |
| | | Updated on emerging tech. Employer | |
| | | | |
| | And the second sec | and a second | <u></u> |
| | | | Faster project execution |
| | Hands Increase in | | |
| Cost Days Knowledge & expertise | Hands Increase in productivity | Expansio | Faster project execution |

WiMAX Lab

A first of its kind initiative by an Independent Service Provider

Features:

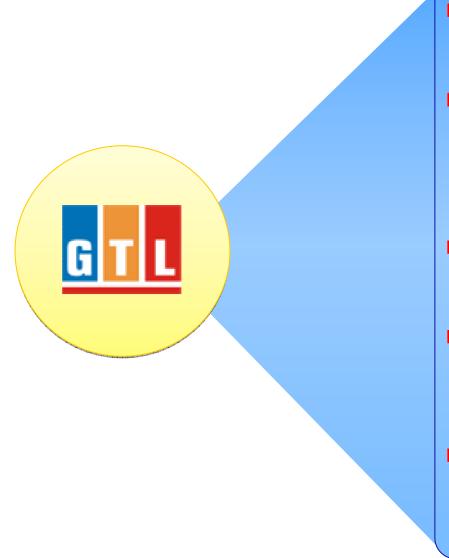
- Equipped with WiMAX equipments of various OEMs under one roof.
- To provide an environment for Service Providers to test different WiMAX equipment
- Multiple CPE, proof of concepts, software upgrade compatibility, firmware changes and hardware upgrades before rollout.
- Highly skilled Resources, processes and Tools for conducting interops and application testing in the Lab





Ecosystem Balance

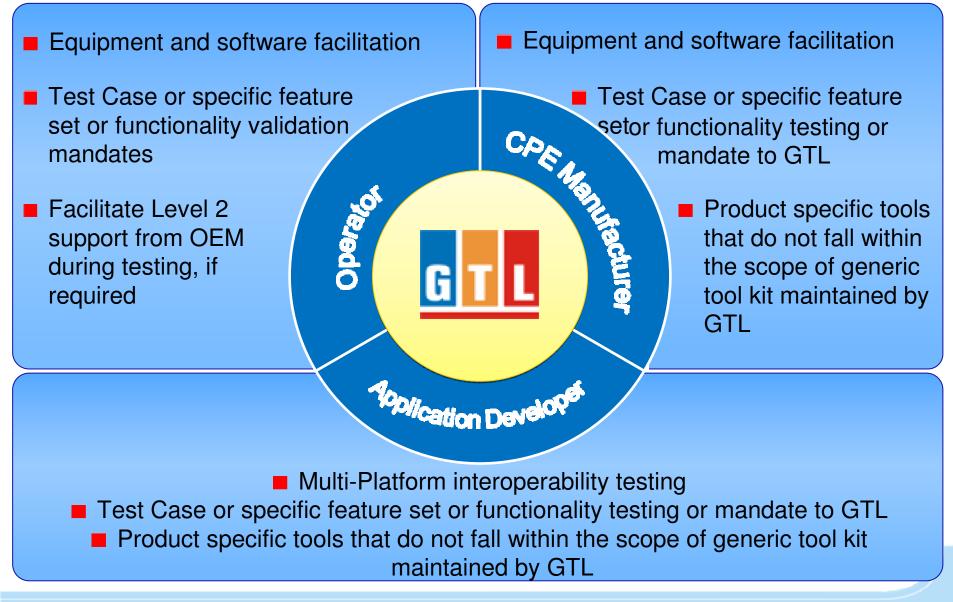




- Invest in the Lab facility creation
- Maintain the Lab and have trained resources for upkeep of the equipments
- Conduct tests and POC
- Maintain tools & test equipments required for carrying out the testing
- Build Processes and standardize test cases and methodologies for O&M subsequent to GO Live!

Ecosystem Balance





In Conclusion





Any evolving technology brings opportunities and complexities; deserves a holistic services approach for success



WiMAX CoE a professionally Managed Services Organization delivering Cost-competitive End to End Systems Integration Services including Managed Services support for Wireless Broadband operators



WiMAX Academy & Lab: A World class training and testing facility to enable interoperability testing, knowledge transfer and Application development support

- Enables Vendor Agnostic Unbiased Test capability
- No burden to "Create and Upkeep"
- WiMax Business Enabler- All parties gain
- Non-Intrusive to Network Operations





Thank You

