KALLIKRATIS

- How a Metropolitan Municipality can offer the existing ,or even better service to the citizens ?

- The soonest possible
- At the lower cost

The Local Network-wireless

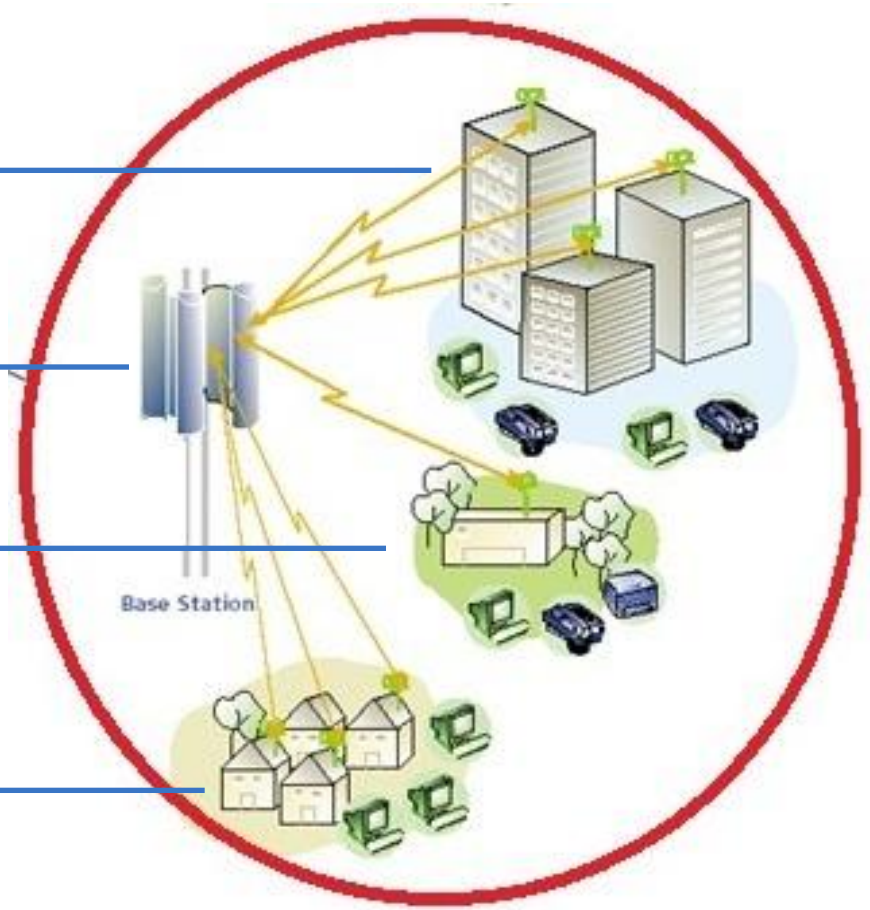
4-8 Mbps for Teleconference, e-learning, WebTV

2 Mbps for e-government services

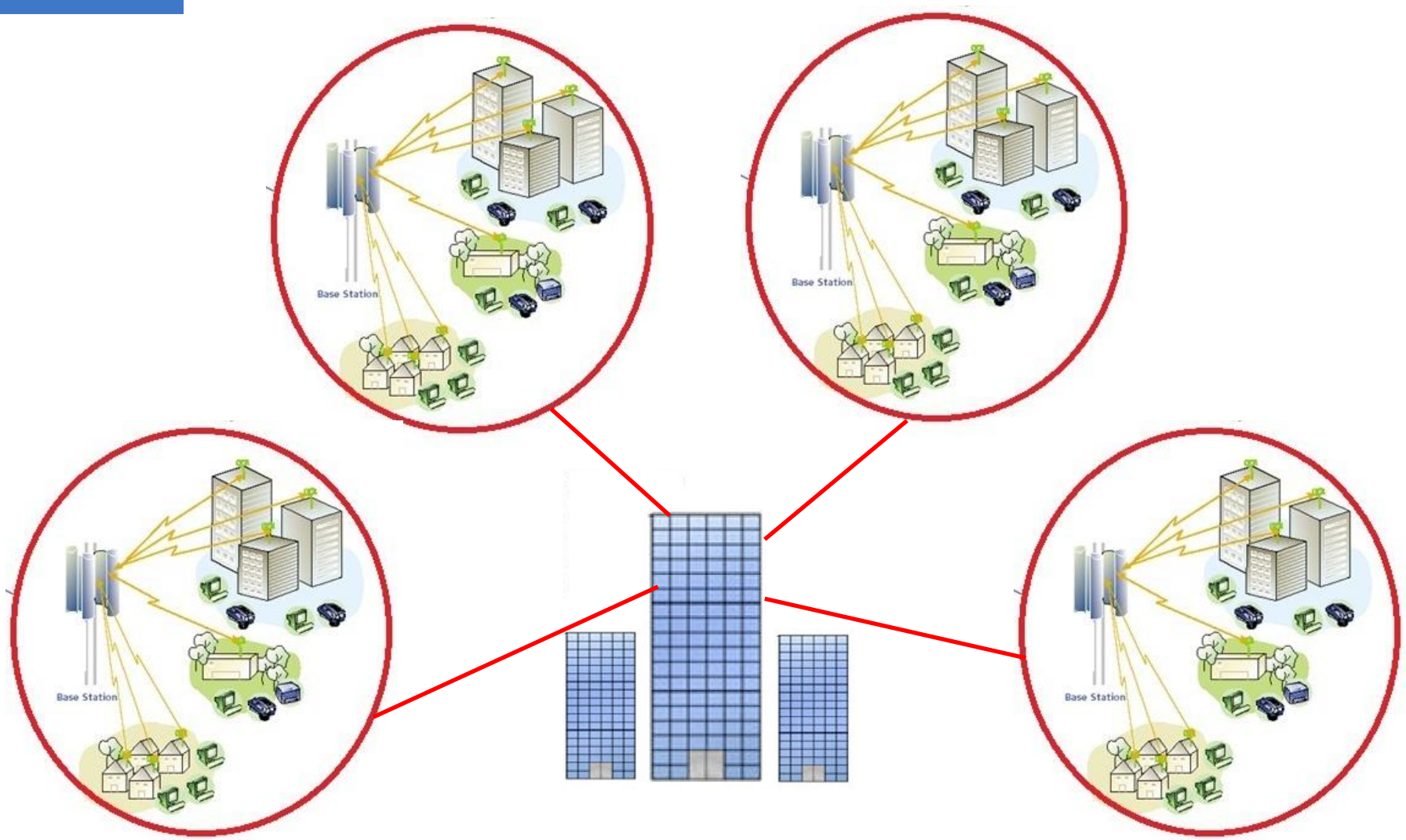
1 Mbps for accounting services

1 Mbps for e-health services

10-15 Mbps

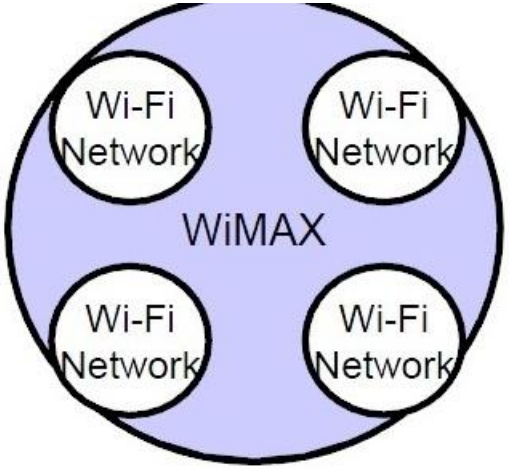


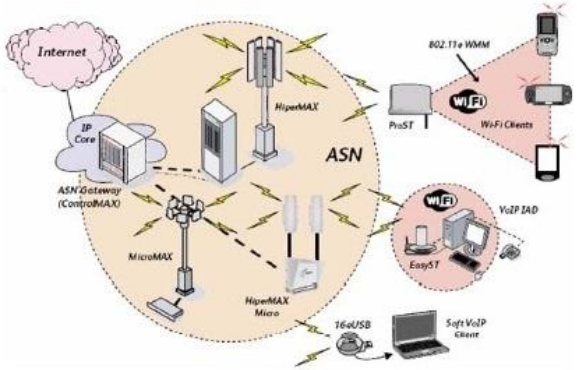
The National Network - fttb



The solution

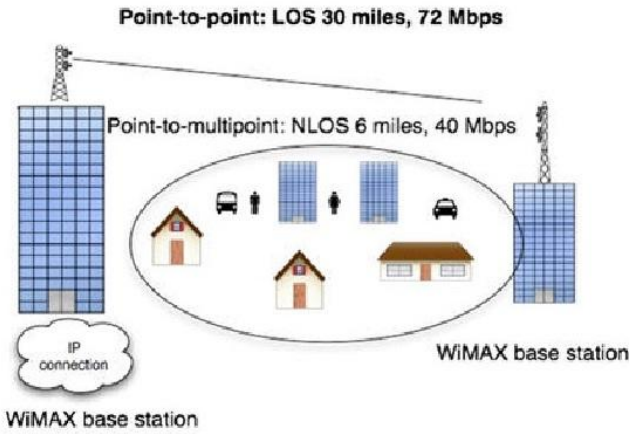
- WiMAX can be used to provide backhaul in both cellular and Wi-Fi networks
- For users, it provides them with services where they did not have access before and fills the missing gaps
- For the Hot-Spot providers, it provides a cost – effective alternative as opposed to a T1 leased line



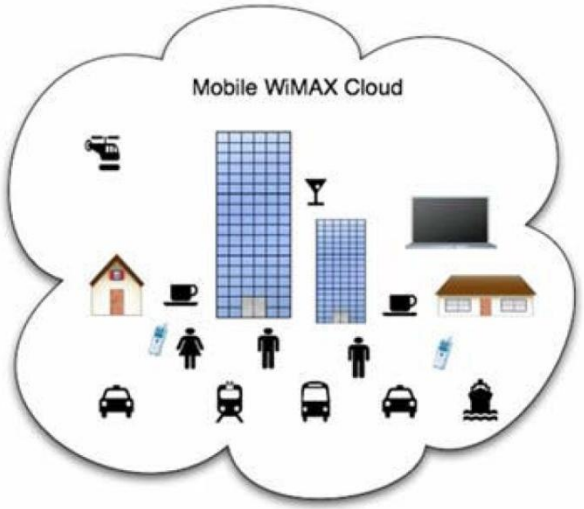


The services

- Last Mile: Broadband Internet access
- Backhaul Network
- Traffic management
- Health
- Deploying infrastructure for events
- Delivering media content
- Streaming Multimedia
- VoIP
- …and more

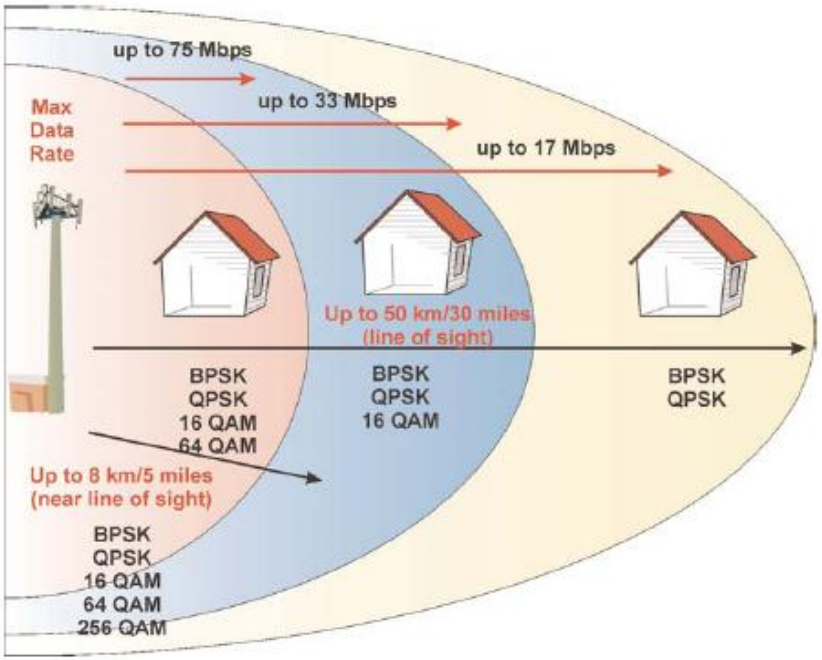


Fixed WiMAX offers cost effective point to point and point to multi-point solutions



The WiMAX technology

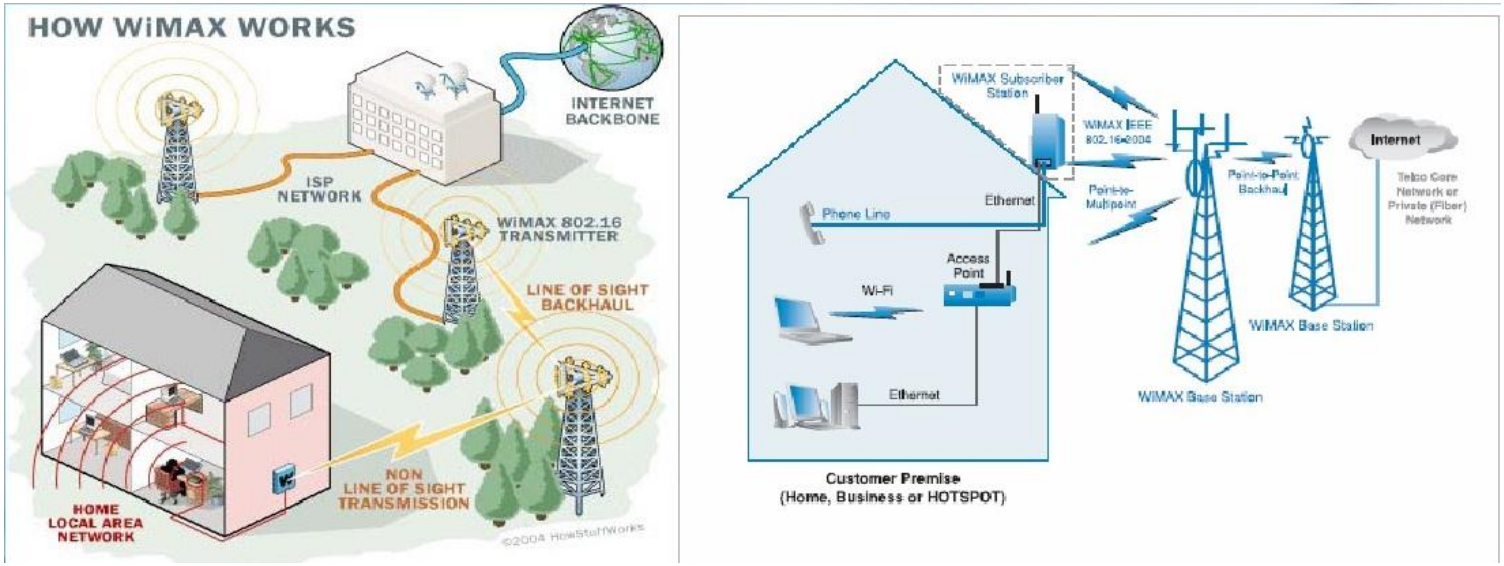
WiMAX	Wi-Fi
PMP wireless technology	PMP wireless technology
MAN	LAN
Range: 10 Km	Range: 300 feet
Covers a small city with one base station	Covers one floor of an office building, one home…
Throughput: 70 Mbps	Throughput: 11 Mbps
Security: Multi-level encryption	Security: limited
QoS: Dynamic bandwidth allocation, good for video & voice	QoS: Limited
MAC: scheduling algorithm	MAC: contention access



WiMAX Scenario

Many BSs connect to each other: increase capacity, coverage

Indoor many users and applications share the connection



Thank you for your attention

You are always welcomed to our city

e-trikala

e-services for the citizens