Digital Cities

A paradigm shift that is changing the world

June 2005

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Environment

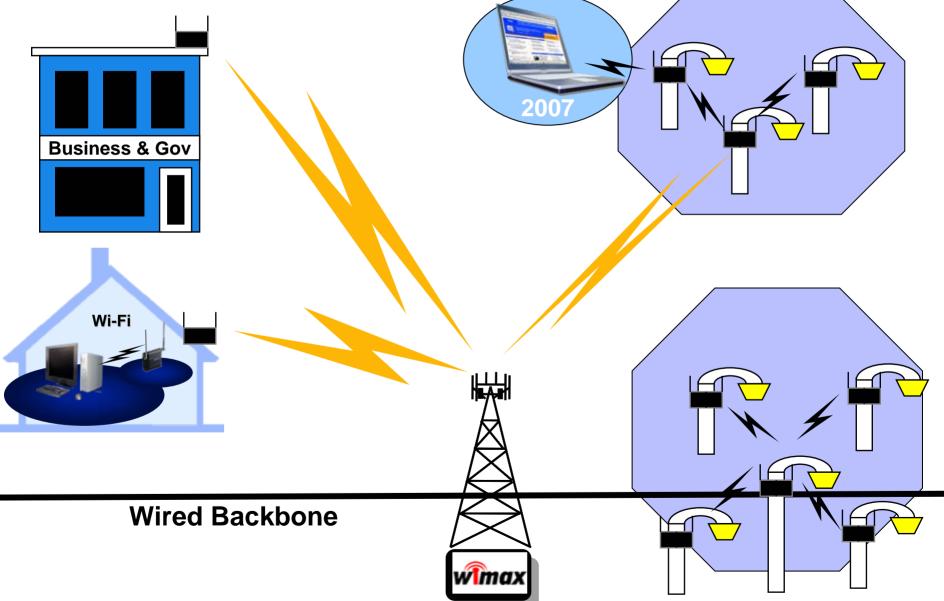
- Municipal WMAN deployments
- Creative business models
- Legislated restrictions
- Demand driving innovation
- Range of technologies
 - Wireline, WiFi, WiFi
 Mesh, WiMax,
 Proprietary Wireless

- Wi-Fi service launched in Islington (London)
- Glen Cove, Long Island gets Wi-Fi hotzone
- Moorhead, Minnesota gets citywide Wi-Fi
- Push for free citywide Wi-Fi in San Antonio, TX
- Buffalo, NY plans giant Wi-Fi hotzone
- Addison, Texas unwired
- San Francisco public utility approves muni broadband study
- Chicago looks into citywide Wi-Fi
- South Bend, Indiana gets downtown hotzone
- OneCleveland serves high-speed access
- Rio Rancho, NM unwired
- Hongkong residents get Gigabit broadband
- San Sebastian, C unwired
- Anaheim, CA ponders citywide Wi-Fi
- Citywide Wi-Fi for the Twin Cities
- St. Cloud, Florida gets citywide Wi-Fi
- Cebu City unwired
- Bringing broadband to Brooklyn
- Fullerton, California unwired
- Las Vegas mesh network details
- Atlanta unwired
- Dayton, Ohio goes Wi-Fi
- Seattle to get fixed wireless service

Principles for Municipal Broadband

- More Bandwidth is 'Good'
 - Digital divide is real and must be addressed
 - Broadband underpins IT-based economies
- Thriving ecosystem of innovation: no bans on municipal actions, but no exclusivity either
- Not a competition: public-private partnerships work and make sense

WiFi and WiMAX Technologies



What is a Digital City?

A community whose leadership has a vision and active plan; to transform the way people live, work and play - through a computing and communication fabric which enables government, business and citizens.



Digital Cities









Device Monitoring & Control

- Examples
 - Gas Water & Electric Meters
 - Parking Meters
 - Appliance control Furnace, Water Heater, Air Conditioning
 - Sensors (Temperature, Chemical)
 - Vehicle Tracking & Location
- ROI
 - Wages, Insurance, vehicle maintenance, leaks/peaks/outages, billing cycles, affordable backhaul







Mobile Work Force

- Examples
 - Permits & Licensing
 - Automated field inspectors
 - Work order automation for maintenance & Repair
 - Vehicle inventory tracking (*RFID*)
- ROI
 - Remote Access to Data, Reporting & escalation, Reduce lost equipment







Public Safety

- Examples
 - Access & exchange of data (Video)
 - Vehicle location
 - Incident command
 - Patient identification & triage
 - Vehicle Inventory Tracking (*RFID*)

- ROI

 Reduced travel to file reports, reduce lost equipment, locate missing vehicle or person in building, save life







Business and Citizens

- Examples
 - Education (Collaborative & distance learning)
 - More than email (Order entry, CRM, Finance, HR, Inventory, Travel)
 - Product delivery (Field sw upgrade)
 - Advertising (Not proven yet)
- ROI
 - Make decisions with same tools found in office, fast order entry