



Free is not a viable business model

Why free isn't free!

- "American cities' plans for ubiquitous internet access are running into trouble". Aug 30th 2007 | SEATTLE From *The Economist* print edition
- San Francisco: Mayor Gavin Newsom's effort to blanket the city with a free Wi-Fi network, which already had run into snags with the Board of Supervisors, dies when EarthLink backs out of a proposed contract.

San Francisco Chronicle

 Houston: Earthlink agrees to pay a \$5 million penalty for missing deadlines on Houston's Wi-Fi project and Mayor Bill White says the company could decline to do the project altogether without paying additional penalties.

Houston Chronicle

 Chicago: Rising costs, declining demand and increased competition from private Internet providers prompt Chicago to shelve its ambitious plan to build an \$18.5 million Wi-Fi system after negotiations with EarthLink and AT&T bog down.

Chicago Sun-Times

What else is going on?!

- "As the first generation of muni-wi-fi's unbounded enthusiasm comes to an end, it's time to redouble efforts in order to stay focused on the ever growing need to improve the quality of life and opportunity for American citizens in the 21st century." Lev Gonick
- Is municipal Wi-Fi dead? Not exactly. What's dying is the dream that cities could reap the benefits of vast wireless networks for free.
 13th Floor
- While most of the chatter about municipal Wi-Fi focuses on citizens and businesses, the biggest beneficiaries may be governments themselves.

Governing

- EarthLink's announcement that it will lay off nearly half of its workforce is a blow to broadband competition and to its municipal Internet business, but some industry followers say it doesn't signal the end of municipal Wi-Fi. InfoWorld
- Philadelphia: Mayor John Street says his city's wireless initiative is continuing to "move full steam ahead" despite a Earthlink's restructuring and layoffs. Officials say the network is operational in more than 50 percent of the city. Philadelphia Inquirer

Why Broadband Mobility?

Run projects and organizations more efficiently

Improve transportation and infrastructure

Improved
Citizen
Security and
Safety

Attract new business and residents. bridge Digital Divide











Enable workers data access everywhere



Tracking of public transport units and cameras

Access to critical information for Timely Decision Making

Interconnect businesses, citizens, and tourists.

Governments are Leveraging Mobility to Enhance Their Capabilities to the Benefit of the Community

Public Safety and Security



Empowers
first
responders
with critical
information
and resources
at the point of
need

Service Effectiveness



Increases
employee
productivity by
allowing them to
be connected
when they are on
the move

Citizen Empowerment



Provides citizens
with easier
access to
services from
government

Economic Development



Differentiates
community and
allows business
and visitors to
get access on the
move

Social Inclusion

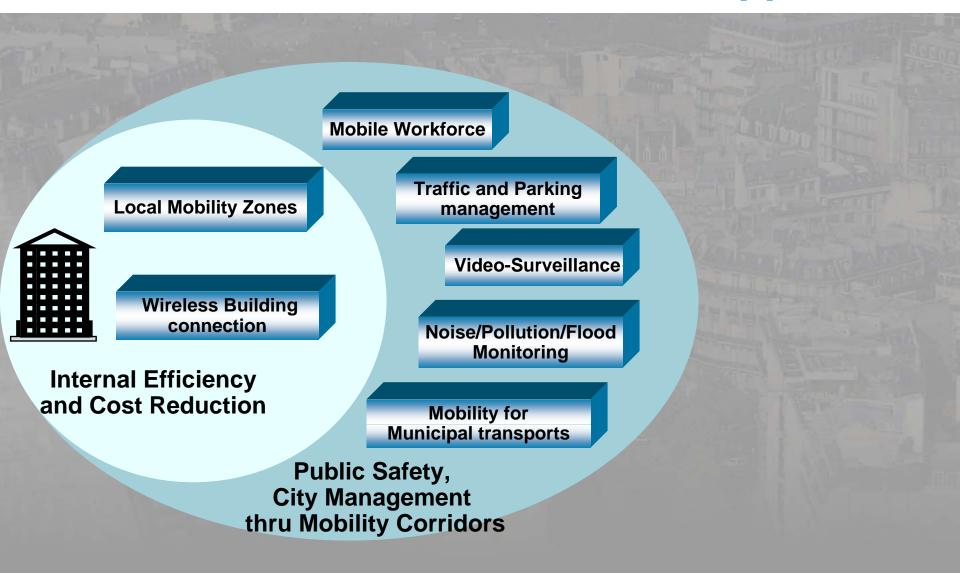


Allows more citizens an economical way to get broadband and be connected to the community

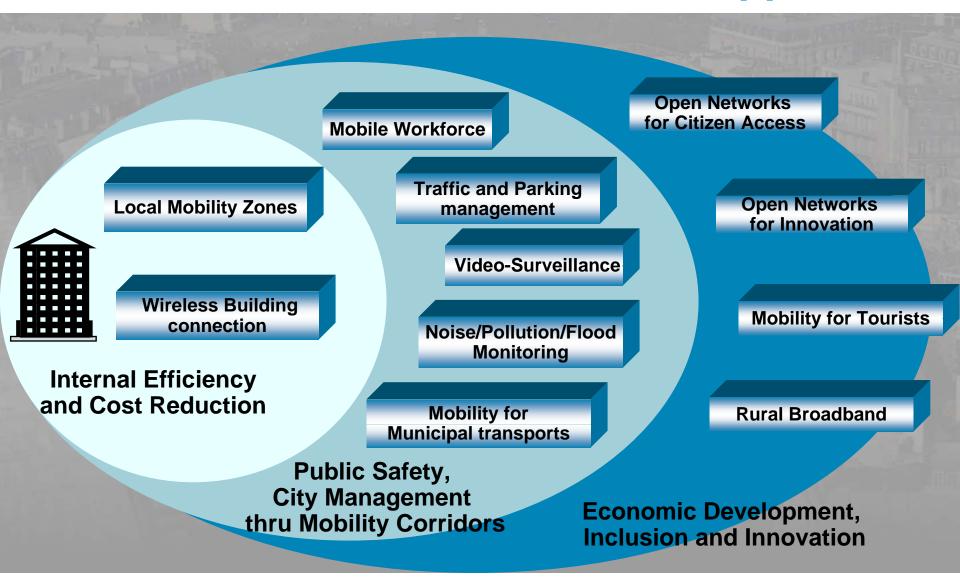
Mobile Government: A Phased Approach



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Mobile Government: A Phased Approach



Prescription for Success



What makes a broadband mobility deployments successful?

Applications are Key!

Internet Services



- > Residential
- > Business
- > ISP Wholesale
- > Social Inclusion

Advertising



- > Local Business
- Location BasedTarget Advert

Public Safety



- > Video Surveillance
- > Mobile Law Enforcement
- > First Responder Interoperability

Municipal Government



- > Bldg Inspection
- > eGovernment
- > Meter Reading
- > Asset Mgmt
- > Traffic Mgmt
- > ITS
- > Fleet Mgmt
- > Case Mgmt

Service Provider Revenue Capture

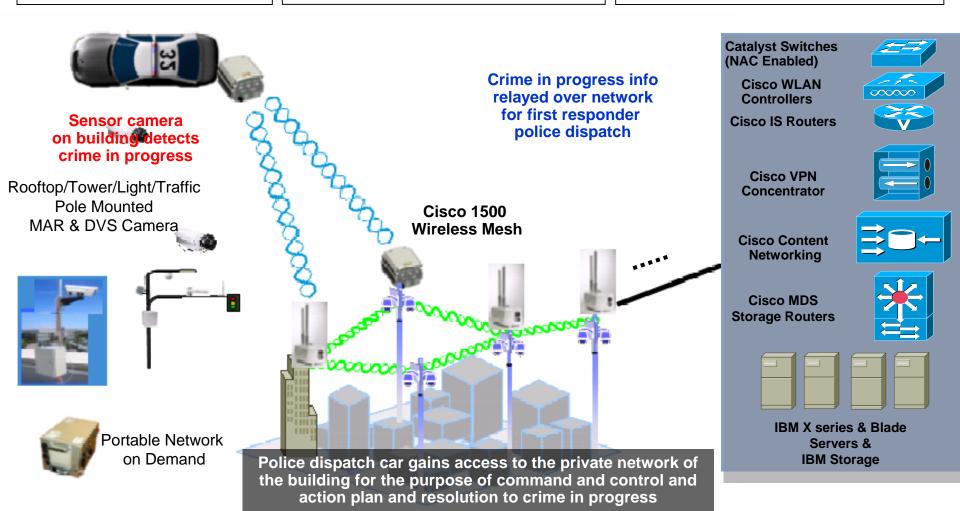
Cost Savings, Revenue and Services

Public Safety Network & Sensor Enabled Surveillance Solution

Networked Video

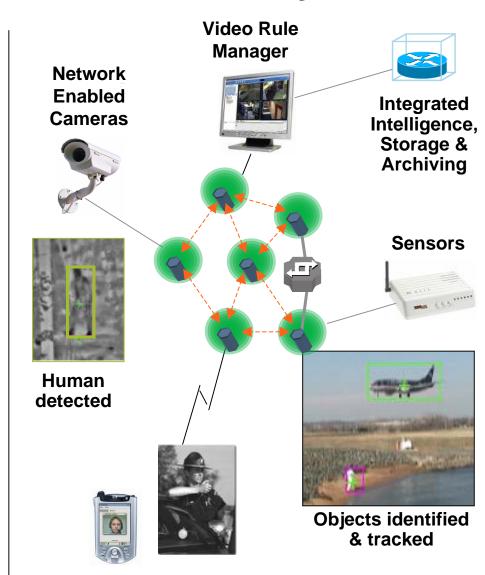
Wired and Wireless Transport

Video Data & User Application



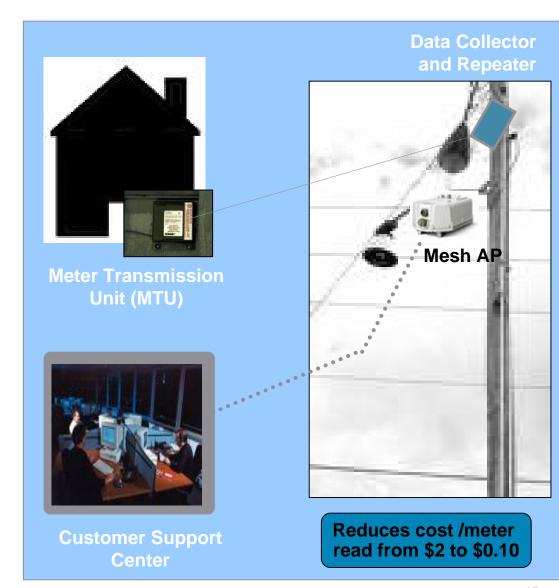
Application - Intelligent Video Analytics

- Accessible from anywhere on the network
- Customized Intelligence per node, agency, officer, incident
- Adaptive bandwidth management
- Intelligent response & forwarding of alarms & video snapshots
- Backend integration with applications such as license plate recognition
- Compatible with video network management and archiving systems
- Only for fixed locations or onboard monitoring

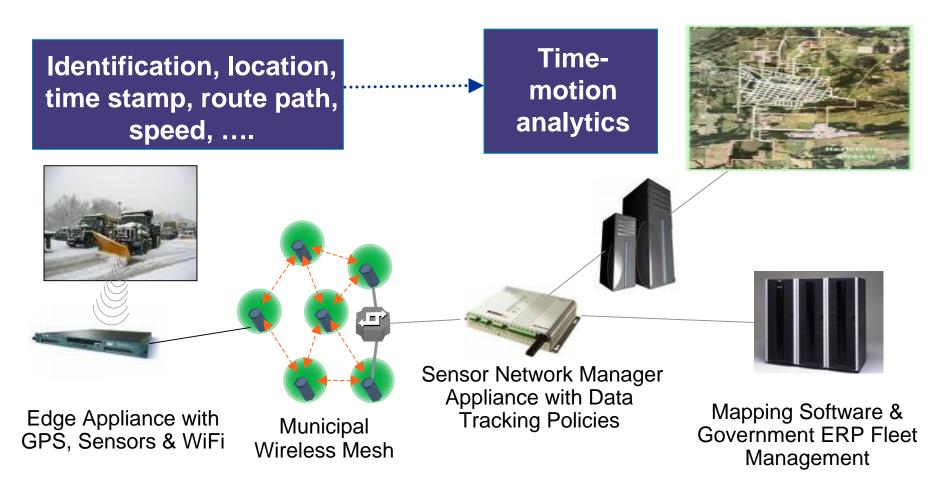


Application - Automated Meter Reading

- Improves data reliability and accuracy
- Improves billing accuracy
- Eliminates estimated meter reads
- Reduces labor costs
- Improves employee safety
- Reduces customer complaints
- Improves management of delinquent accounts
- Accelerates cash flow based on monthly billing

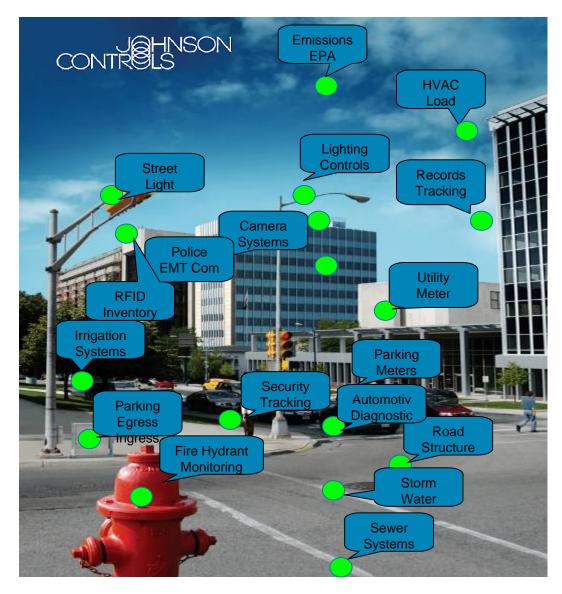


Application - Fleet Asset Tracking

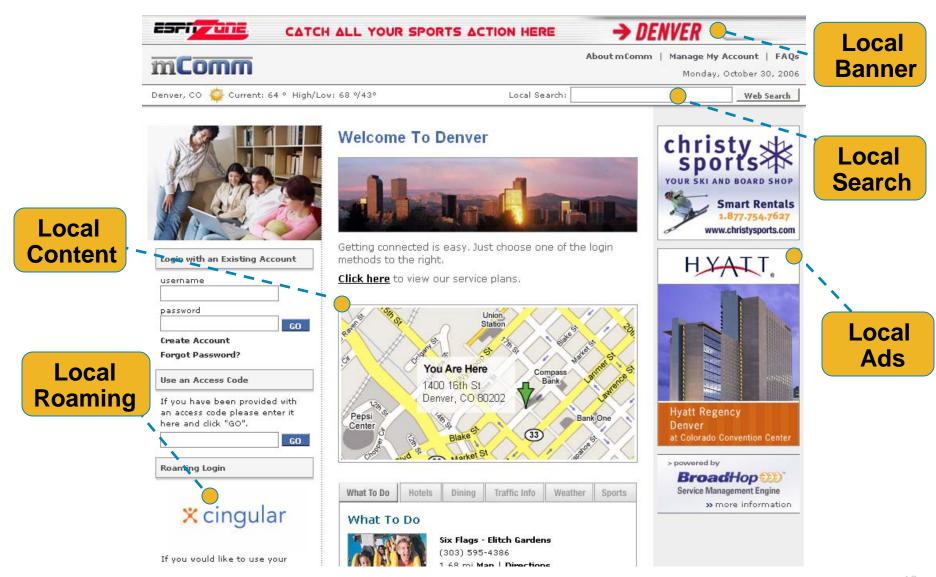


- Reduces insurance, operating, maintenance costs, overtime expense, inventory losses
- Improves driver performance, safety, security and content security, asset loss recovery and prevention and customer service
- Maximizes vehicle utilization and proof of delivery

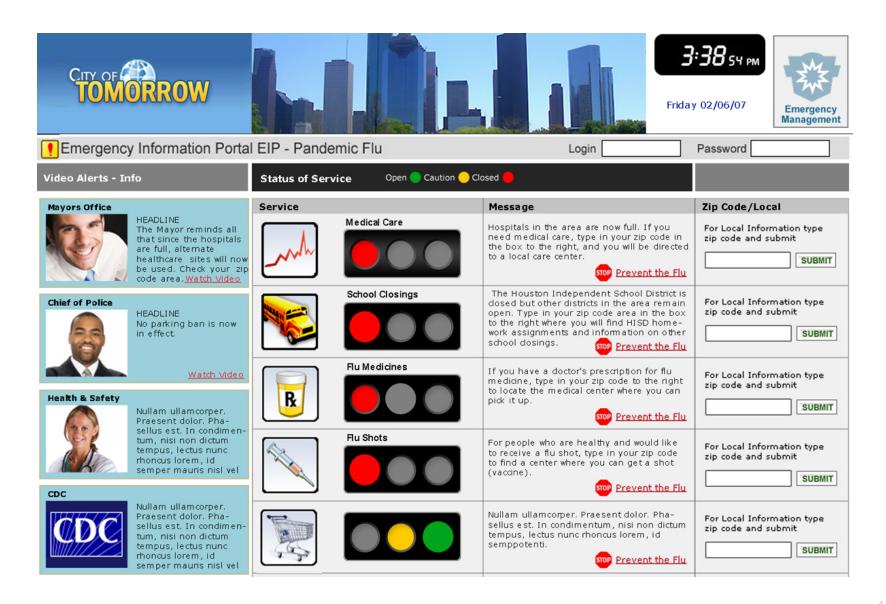
Remote Sensing - An "Internet of Things"



Location-Based Convention & Visitors



eGovernment Portal



Governments are Leveraging Mobility to Enhance Their Capabilities to the Benefit of the Community

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Cisco's Mobile Government Solution Strategy



Network as the Platform Leverage your Investment / Focus on Value!

What do successful deployments have in common? Prescription for Success

- 1. Partnership between employers, cities/counties/state and with experienced market leaders
- 2. Integration of multi-use requirements and defined deliverables
- 3. Focus on Best of Breed applications that deliver immediate value
- 4. Mobility architecture designed as an extension of the core network
- 5. Reasonable expectations in a phased approach and scalable design
- 6. Win/Win business model for improved services & economic viability
- 7. Upfront understanding of the cost to build and own assets
- 8. Economic Development through data availability
- Quality of Life, Social Inclusion, Citizen Satisfaction for public benefit
- 10. Proven service providers to operate and maintain if there is public access

Key Take Aways

- Purpose built Network for Access
 Focus on access to applications & service delivery
- Coordinated Effort
 State, Counties, Cities & Private sector
- Viable Economic Model Public & private



Thank You!

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