



**ANALYSIS GROUP**  
ECONOMIC, FINANCIAL and STRATEGY CONSULTANTS

# Why Muni WiFi?

**Coleman Bazelon**  
**Analysis Group, Inc.**

**Information Economy Project Mini-Conference**  
**November 14, 2006**



# Region & Citywide networks

## **Tempe, AZ**

Chandler, AZ

Pacifica, CA

Galt, CA

Anaheim, CA

Mountain View, CA

Cerritos, CA

Cupertino, CA

Sunnyvale, CA

Santa Clara, CA

Lompoc, CA

Hermosa Beach, CA

San Diego Indian Tribal Villages,  
CA

West Hollywood, CA

St. Cloud, FL

Monticello, FL

Adel, GA

Linton, IN

Scottsburg, IN

Brownsburg, IN

Marion, IN

Western Kansas, KS

Owensboro, KY

Vivian, LA

Princeton, MA

Cape Cod, MA

Rockland, ME

Thomaston, ME

## **Annapolis, MD**

Allegany County, MD

Grand Haven, MI

Ferrysburg, MI

Spring Lake, MI

Gladstone, MI

Buffalo, MN

Chaska, MN

Moorhead, MN

Nevada, MS

Los Lunas, NM

Rio Rancho, NM

Fire Island, NY

Dublin, OH

Tulsa, OK

Lebanon, OR

Sandy, OR

Umatilla County, OR

Dublin, PA

Linden, TX

Addison, TX

Granbury, TX

Southlake, TX

Dickenson County, VA

Island Pond, VT

Brandon, VT

Marshfield-Plainfield, VT

Grand Isle, VT

Westmore, VT

Stevenson, WA

Federal Way, WA

Benton County, WA

Renton, WA

Pasco, WA

Southeast Washington state, WA

Sun Prairie, WI

Waupaca, WI

Jackson, WI

## **Madison, WI**



# City Hot Zones

Milpitas, CA

Newport Harbor, CA

Laguna Beach, CA

Covina, CA

Fullerton, CA

Culver City, CA

Los Angeles, CA

Encinitas, CA

Santa Barbara, CA

Burbank, CA

Pomona, CA

Denver, CO

Washington, DC

Wilmington, DE

Daytona Beach, FL

Panama City, FL

Sarasota, FL

Honolulu (Chinatown), HI

Highland Park, IL

Urbana, IL

Lexington, KY

Louisville, KY

Frankfort, KY

Marshalltown, IA

Baton Rouge, LA

Nantucket, MA

Worcester, MA

Wilmington, NC

Rochester, NY

Glen Cove, NY

## ***Dayton, OH***

Cleveland, OH

## ***Pittsburgh, PA***

Bethlehem, PA

Charleston, SC

San Antonio, TX

Richardson, TX

Alexandria, VA

Spokane, WA

Vancouver, WA

Kent, WA

Cedarburg, WI

Cody, WY



# Public Safety and Municipal-Use-Only Networks

Rio Rico, AZ

San Diego County, CA

San Mateo, CA

Milpitas, CA

Pleasanton, CA

Ripon, CA

Fresno, CA

Aurora, CO

Salida, CO

North Miami Beach, FL

Sarasota County, FL

Riviera Beach, FL

Cocoa Beach, FL

Sarasota County, FL

Smyrna Beach, FL

Kansas City, KS

Lenexa, KS

New Orleans, LA

Washington, LA

Buffalo, MN

Lewis & Clark County, MO

Wake County, NC

Lincoln, NE

Las Vegas, NV

Jamestown, NV

Oklahoma City, OK

Medford, OR

York County, PA

Providence, RI

Garland, TX

Colleyville, TX

Bellevue, WA

Seattle (port), WA

Marquette, WI

Montpelier, VT



# City and countywide projects (RFP/RFI issued or deployment phase)

Sahuarita, AZ	Silicon Valley, CA	Pepperell, MA	Sandoval County, NM	Corpus Christi, TX
Mesa, AZ	Denver, CO	Malden, MA	Henderson, NV	Plano, TX
Phoenix, AZ	Vail, CO	Brookline, MA	Suffolk County, NY	Farmers Branch, TX
Scottsdale, AZ	Longmont, CO	Orleans, MA	Nassau County, NY	Houston, TX
Yuma, AZ	Hartford, CT	Cambridge, MA	Buffalo, NY	Alexandria, VA
Gilbert, AZ	Dunedin, FL	Rockville, MD	New York, NY	Fairfax, VA
Oakland, CA	Miami Beach, FL	Cabin John, MD	Ulster, NY	Snohomish County, WA
Corona, CA	St. Peterburg, FL	Muskegon, MI	Akron, OH	Western Washington State, WA
West Covina, CA	Orlando, FL	Marquette, MI	Cuyahoga Falls, OH	Racine County, WI
Long Beach, CA	Rome, GA	Genesee County, MI	Dayton, OH	Milwaukee, WI
Pasadena, CA	Alpharetta, GA	Ottawa County, MI	Oklahoma City, OK	Waukesha, WI
Foster City, CA	Atlanta, GA	Oakland County, MI	Corvallis, OR	
Ontario, CA	Meridian, ID	Washtenaw County, MI	Portland, OR	
<b>San Francisco, CA</b>	Chicago, IL	Grand Rapids, MI	Washington County, OR	
	Cook County, IL	Traverse City, MI	Wilkes-Barre, PA	
Sacramento, CA	Rockford, IL	Macomb County, MI	Philadelphia, PA	
San Jose, CA	Aurora, IL	Minneapolis, MN	Kutztown, PA	
Santa Monica, CA	Springfield, IL	St. Louis Park, MN	State of Rhode Island	
Riverside, CA	South Bend, IN	Winston-Salem, NC	Rock Hill, SC	
Concord, CA	Beech Grove, IN	Summit, NJ	Columbia, SC	
Fremont, CA	New Orleans, LA	Red River, NM	Burleson, TX	



# Cities and counties considering Wi-Fi

Queen Creek, AZ

Leon County, FL

Diamond Bar, CA

Miami-Dade County, FL

Glendale, CA

Park Ridge, IL

Aspen, CO

Boston, MA

Broomfield, CO

Springfield, MA

Arvada, CO

Baltimore, MD

Lakewood, CO

St. Paul, MN

Wheat Ridge, CO

Lincoln, NE

Westminster, CO

Burlington County, NJ

Thornton, CO

Camden County, NJ

Boulder, CO

Gloucester County, NJ

New Haven, CT

Washington, DC

Canton, OH



# Muni WiFi Systems

	Jul-05	Feb-06	Apr-06	Jun-06	Sep-06
Region/Citywide	38	56	58	59	68
City hot zones	22	29	32	32	43
Municipal or public safety use only	28	32	35	35	35
Planned deployment	34	59	69	121	135
<b>TOTAL</b>	<b>122</b>	<b>176</b>	<b>194</b>	<b>247</b>	<b>281</b>

Source: [www.muniwireless.com](http://www.muniwireless.com)

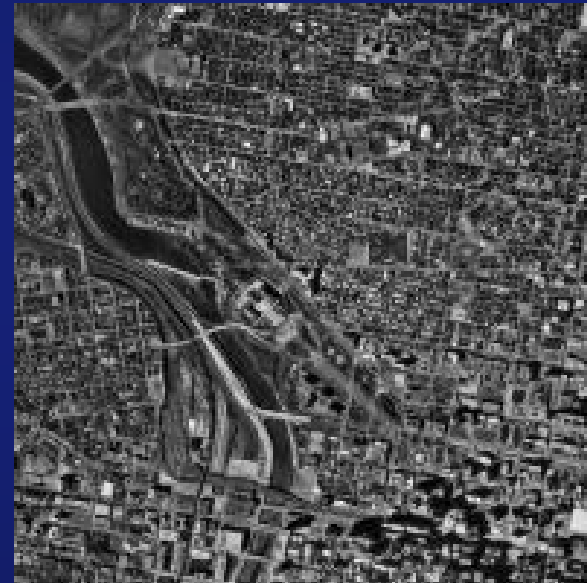


# Muni WiFi Systems

Chaska, MN



Philadelphia, PA





# Business Models

-For-Profit

-Nonprofit

-Procurement

-Public-Private Partnership

-Public Ownership

-Subsidized Loans

Source: FTC (September 2006)



# Public Benefits

- Broadband coverage
- Broadband competition
  - Direct
  - Wholesale
- Subsidized broadband
  - Municipal
  - Consumer
- Cash



# Public Inducements

**-ROW**

**-Anchor tenant**

**-Cash**

**-Franchise**



# Market Failures?

-Restricted competition in broadband

- Franchising
- Tower permitting

-Spectrum, Spectrum, Spectrum

=> Muni WiFi may be a 2<sup>nd</sup> (3<sup>rd</sup>, ..., n<sup>th</sup>) best response to poor spectrum policy

