

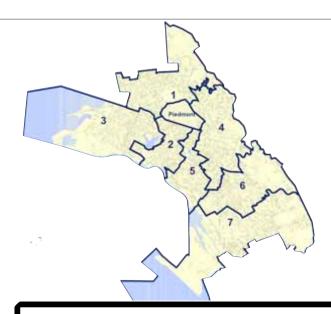
Tellus Venture Associates

Comprehensive assessment of needs, goals & priorities

- Assessment meetings with DIT staff
- Technical survey of city assets & environment
- Workshops for police, fire, emergency services, public works, finance, administration, parks, library, museum, human services
- Workshops for business, education, non-profits, public agencies
- · Public focus groups by district
- Town Hall meeting
- Public comment via phone and email

Study Objective:

Conduct the necessary fact finding that will support the establishment of a sound vision for the deployment of an achievable and sustainable wireless broadband network.



Broad, nearly unanimous agreement...

- ✓ Public Internet access via community anchor institutions
- ✓ Pay-as-you-go opportunities for business
- Wireless Internet service to homes or individuals
 - Widespread financial and technical failure in other cities

Needs, goals & priorities led to operational requirements

Priority Strategic Goals

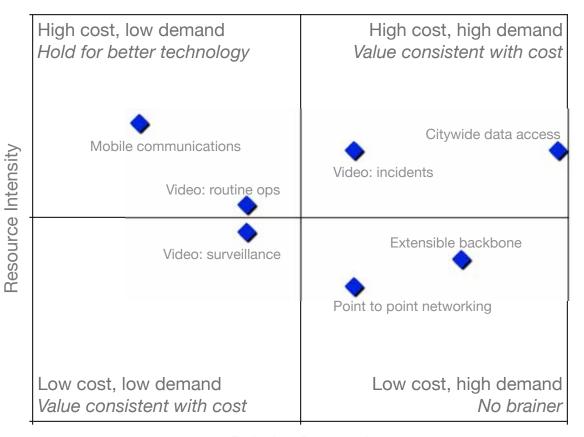
- Sound financial planning
- 2 Free school access
- 3 Free public access at libraries, community centers, parks, etc.
- 4 Affordable access for the public
- 5 System facilitates improved productivity

6	Public	project	awareness
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Operational Requirement	Public Safety	Emergency Services	Public Works	Finance & Admin	CEDA	Human Services	Parks & Recreation	Other Agencies	Business	Non-Profits	Public	
Citywide data access		Χ	Χ	Χ		Χ	Χ	Χ				
Mobile communication		Χ	Χ									
Video: routine operations		Χ	Χ	Χ								
Video: incidents & events		Χ	Χ				Χ	Χ				
Video: surveillance & monitoring			Χ				Χ		Χ			
Point to point networking					Χ		Χ	Χ	X	Χ		
Extensible network backbone				Χ		Χ	Χ	Χ	Χ	Χ		

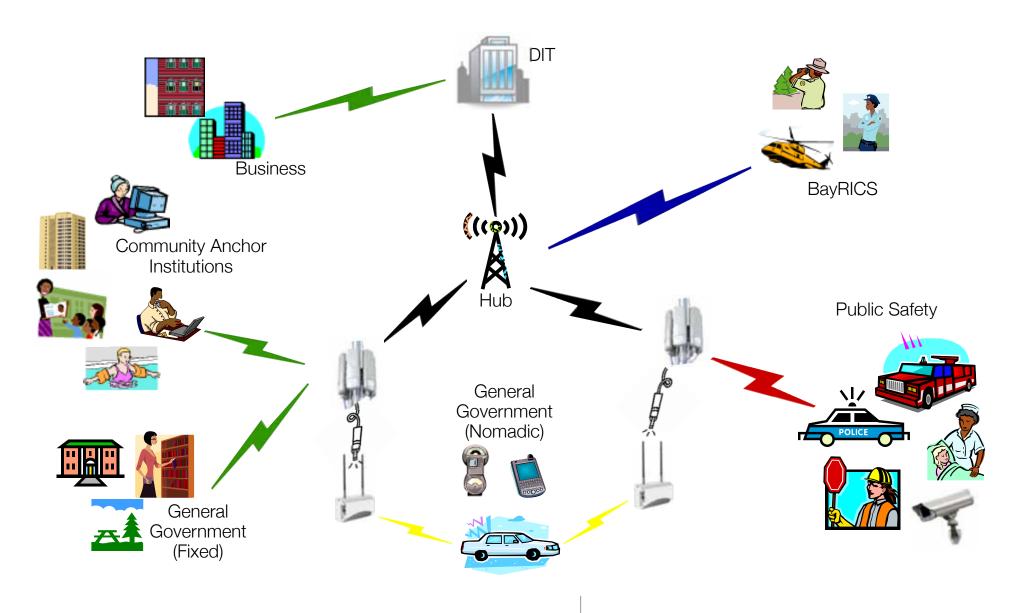
Is desire consistent with cost?

Setting operational requirement priorities for the City of Oakland



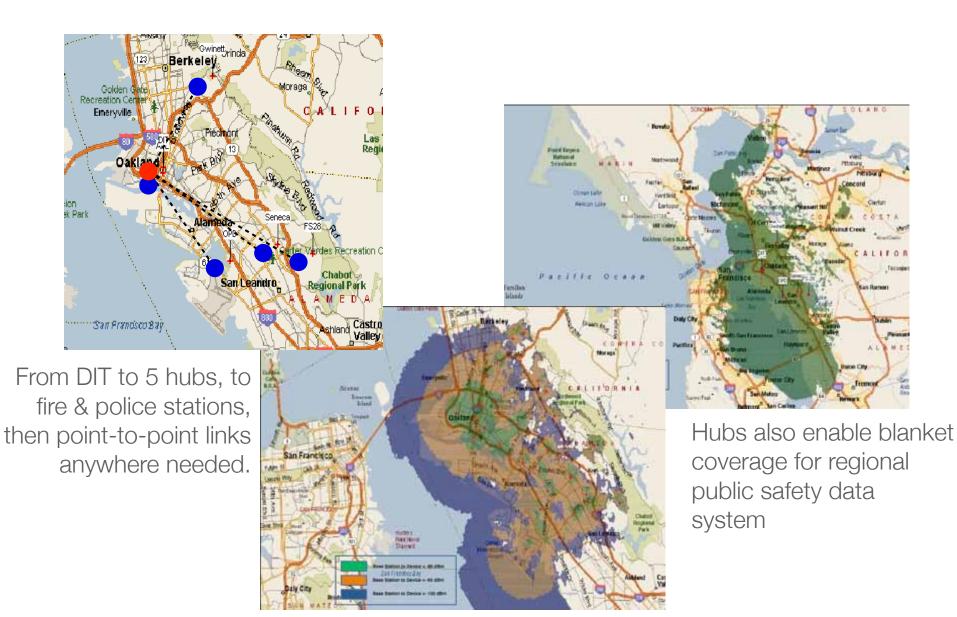
Relative Demand

- 1. Extensible network backbone
- 2. Point to point networking
- 3. Citywide data access
- 4. Video: incidents
- 5. Video: surveillance
- 6. Video: routine operations
- 7. Mobile communications



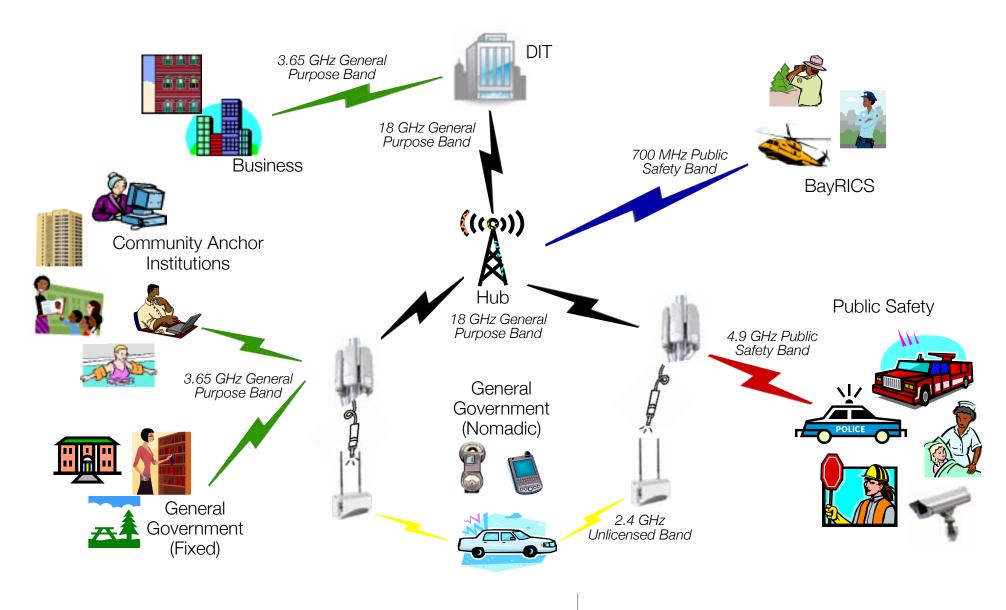
Requirements drive design of reference architecture

Can it be done?



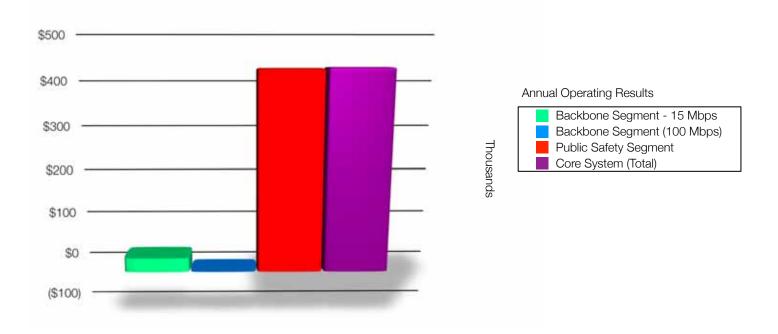
Backbone enables flexible, citywide coverage for diverse applications

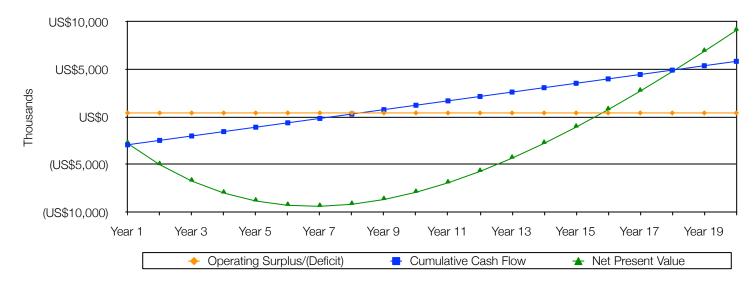
Yes, it can be done



Coverage, service levels technically feasible

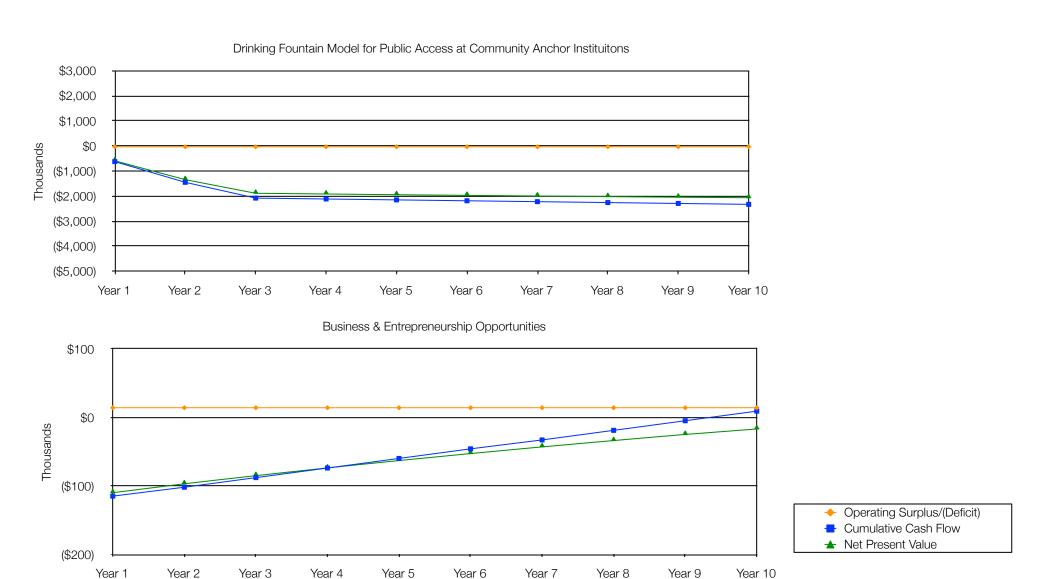
Reference architecture one example of how





Core system operates at a surplus, pays full cost over time

Higher capacity, and hard savings on current leased lines



Core supports community anchor institutions, businesses

Business service pay-as-you-go, community service returns value



Community Anchor Institutions

Schools & Educational Facilities - 200



Community Organizations - 80



Neighborhood Partnerships - 80



Community Housing - 267

Note: numbers are examples only, to illustrate capacity. Actual site selection process is TBD.



Business-grade service



City sells network access and packaged solutions on a wholesale basis to small, local companies, who in turn re-sell it to underserved commercial properties, downtown and potentially elsewhere.



Human Services - 31



Libraries - 17

Parks & Rec - 38

City of Oakland **Facilities**



Creates opportunities for local entrepreneurs

Next steps

Stimulus program application deadline sets immediate agenda

- Determine which broadband grant programs are available to the City.
- Develop an implementation plan that meets schedule requirements and criteria for "shovel-ready" projects.
- Identify complementary stimulus program-funded projects and potential partners, per applications guidelines.
- Determine the source for the required 20% matching funds, including making any necessary applications to State of California agencies.
- Prepare and submit grant applications covering as many categories as practical by the 14 August 2009 deadline.
- Release an RFP to support the grant applications as soon as possible.

Questions?