

eCLIC Presentation

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■ About the *BBIC*:

- The BBIC is a public policy institute at the Santa Clara University School of Law, affiliated with CSTS
- Specializes in applied research and education in the areas of law, technology and public policy.
- Identifies, documents, addresses and publicizes the broadband and advanced network technology needs of California and the impact of state and federal policies on California's needs.



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■ ***BBIC Partners, Advisees & Addressees:***

- AT&T
- California Community Technology Policy Group
- California NAACP
- Community Technology Foundation of California
- eCLIC (International Advisory Board)
- Great Valley Center
- Latino Issues Forum
- Metro Connect
- Silicon Valley Regional Interoperability Project
- W2i (Wireless Internet Institute)
- Wireless Silicon Valley



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■ Problem:

- many emergency response agencies within a given region do not have the ability to directly share critical information with other emergency service providers in real-time.
 - incompatible communications systems
 - absence of operating policies that support such communication



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■ Problem:

□ Testimony before the 9/11 Commission

- NYPD 9-1-1 center and FDNY dispatch
- overrun by call volumes never been seen before
- radio coverage problems, radio traffic blocking, and building system problems exacerbated problem
- equipment worked as designed and users made the best of what was available to them.



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■ Problem:

□ Testimony before the 9/11 Commission

- First responders in the New York fire and police departments had tremendous difficulty communicating among themselves and between agencies on 9/11.
- In response, a strong call for standardization in this area of technology was made.



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- One Solution (Washington, D.C.):
 - \$106 million Unified Communications Center
 - combined use of a wired, broadband network and a wireless network covering Washington,
 - 18 regional first-responder groups, together with those in the district and their federal counterparts, will be able to communicate seamlessly, share information and follow the orders of a single, unified regional command center



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- One Solution (Washington, D.C.):
- Had the center been operational Sept. 11, 2001
 - District government outbound voice communications would not have been jammed for several hours
 - High volume of inbound 911 calls would have been triaged more rapidly,
 - Real-time video streaming of events from the Pentagon crash site would have been available to first responders,
 - Transportation management of the city's evacuation also would have been greatly enhanced.



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- One Solution (Washington, D.C.):
 - Command Center would not have been financially feasible without:
 - \$24 million of federal grant money and
 - \$82 million of Washington funds
 - getting the funding would have been impossible without demonstrating the center's dual capabilities:
 - emergency and
 - daily first-responder applications



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- One Solution (San Diego, CA.):
 - Federal Fiscal Year 2003, 2004 and 2005 State Homeland Security Grant Programs and Urban Area Security Initiative Grants provided \$73,129,586 to the region.
 - The City received \$21,458,937 under the regional distribution of funds to all jurisdictions after earmarks for regional projects and exercises.



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■ Estimates of Cost:

□ National Emergency Management Association Survey (2006)

- \$7 billion to achieve statewide interoperable communications for first responders.
- \$1.5 billion to build, retrofit and upgrade emergency operations centers nationwide, including expenditures for equipment, software and personnel.



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- Estimates of Cost:
 - National Emergency Management Association Survey (2006):
 - \$400 million for urgent improvements to state operations centers,
 - \$1.1 billion for local operations centers.
 - www.nemaweb.org



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- Resource (Information):
 - Law Enforcement Tech Guide for Communications Interoperability: A Guide for Interagency Projects (2006)
 - guide intended to assist law enforcement, fire service, emergency medical service, and other first response agencies with developing interoperable communications systems



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- Resource (Information):
 - Law Enforcement Tech Guide for Communications Interoperability: A Guide for Interagency Projects (2006)
 - background information, strategies, best practices, and recommendations for public safety radio projects,
 - insight into changes in operating policies that typically accompany the development of interoperable communications systems
 - <http://www.cops.usdoj.gov/default.asp?Item=512>



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- Resource (Federal):
 - 21st Century Communications Systems for First Responders: The Right Call
 - Congressional response to the findings of the bipartisan 9/11 Commission
 - legislation to free up wireless spectrum exclusively for first responders and public safety.
 - Deficit Reduction Act of 2005 includes provisions for allocating 24 megahertz of the 700 megahertz band of spectrum for public safety.



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- Resource (Federal):
 - 21st Century Communications Systems for First Responders: The Right Call
 - Digital Television Transition and Public Safety Act, or DTV
 - timeline and methodology for moving television broadcasting companies and consumers from analog to digital transmissions
 - freeing up critical spectrum for first responders' communications.



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■ Resource (Federal):

□ 21st Century Communications Systems for First Responders: The Right Call

- Digital Television Transition and Public Safety Act, or DTV
 - balance of the spectrum will be auctioned by the government and proceeds directed to upgrade communications equipment, such as radios, for public safety.
 - Additional auction revenues will be applied to reduce the national budget deficit and implement other important programs.
 - House Speaker Nancy Pelosi has committed to enact the recommendations of the 9/11 Commission



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- Resource (Federal):
 - Department of Homeland Security
 - Allow police and fire departments of multiple jurisdictions to talk to one another in real time in responding to a major incident.
 - Secretary Michael Chertoff announced that 46 U.S. cities should have interoperable communications in place for first responders by the end of 2007.
 - All 50 states should aim to have interoperable systems for public safety by the end of 2008



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- Resource (Federal):
 - Department of Homeland Security
 - Secretary Michael Chertoff announced that 46 U.S. cities should have interoperable communications in place for first responders by the end of 2007.
 - DHS will assist 46 cities, receiving grants through the ***Urban Area Security Initiative***, in obtaining digital equipment and technical specifications to achieve interoperable communications by Dec. 31, 2007.



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- Resource (Federal):
 - Department of Homeland Security
 - DHS will offer guidance to communities seeking to set priorities for interoperable communications in their applications for federal homeland security grants in fiscal 2007.
 - All 50 states should aim to have interoperable systems for public safety by the end of 2008



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- Resource (California):
 - California Emerging Technologies Fund
 - achieve ubiquitous access to broadband and advanced services in California through the use of emerging technologies by the year 2010.
 - Broadband Task Force
 - remove barriers to broadband access, identify opportunities for increased broadband adoption and enable the creation and deployment of new advanced communication technologies.
 - Unclear that either group has focused on emergency services to date.

