

Wireless to the Rescue, for... **CONNECTED, PROTECTED COMMUNITIES**

...via **eCLIC**, LINC, SeCLIC, and ???

Pat Lanthier

Principal, RIVERA / LANTHIER & Associates

- **Founder & Chairman, emergency Communications Leadership and Innovation Center (**eCLIC**) , WCA Board Member**
- **Managing Advisor, Livermore Information Network Collaborative (LINC)**
- **Advisor, California Emerging Technology Fund (CETF) and the California Economic Strategy Panel**
- ***Former Manager, the California Governor's Office of Emergency Services (CalOES) (ERMN)***

eCLIC, LINC, SeCLIC

- **eCLIC** = **emergency Communications Leadership & Innovation Center**, a “Center of Excellence” for emergency communications innovation (“Point and Click” Wireless Broad Band Internet Protocol Nets + Common Operational Picture - COP) - [A WCA SIG](#)
- **LINC** = **Livermore Info Net Collaborative**, a survivable wireless Broadband IP network that leverages technology, school assets, and collaboration (COP) - [DEMO APRIL '07 - Livermore](#) -
- **SeCLIC** = **Stanford eCLIC** – [DEMO MAY '07 - SLAC](#)
- **Demos** = Sat HFNs, Fiber, WLANS, WiFi(s), EVDO, Breadcrumbs, Vehicle/person locators, PTZ Video, UWB & air sensors, tent city, COP, interoperability, procedures

WCA & WCA metroSIG

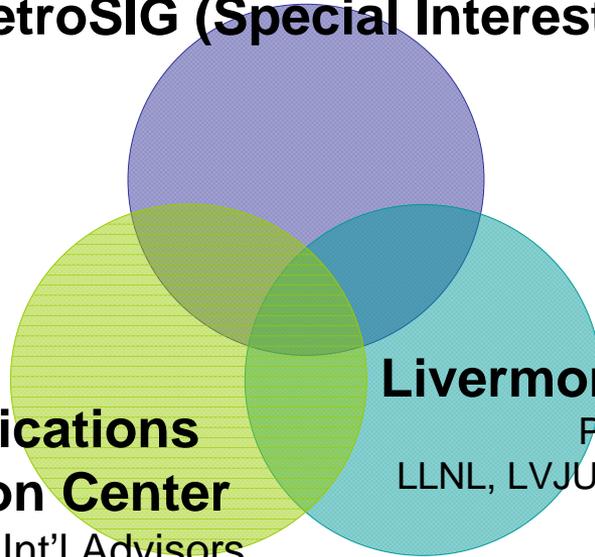
Support **eCLIC**, LINC, SeCLIC

-WCA-

Wireless Communications Alliance

Northern California Wireless Non-Profit (founded 1993)

WCA metroSIG (Special Interest Group)



- **eCLIC** -

emergency Communications Leadership & Innovation Center

25yrs W/L, 12 major inputs, 22 Int'l Advisors
"Point & CLIC" W/L BB IP for Emergencies,
via Visionary Leadership, Skills
& Democratized Innovation

- **LINC** -

Livermore Info Net Collaborative

Pilot with 6 collaborators:
LLNL, LVJUSD, LPD, LPPD, CalOES, Trapeze

- **SeCLIC**-

**Stanford eCLIC, w/SLAC, PAFD,
Stanford Univ. Env. Health & Safety**

eCLIC Vision, Demo Learnings

- ***Communications is the key. Schools, Community Centers, etc., will serve as emergency communications hubs – for Communities***
- ***CONNECTED, PROTECTED COMMUNITIES - for both disasters AND DAILY USE***

eCLIC Question: Where do we find innovation? (Check CE \$\$)

- Will teenagers have more experience with W/LBBIP & better wireless technology than first responders ?
- Hint: Consumer Electronics (CE) drives innovation = 40/50 % of total Electronics; new Intel chips w/ 8 cores ; 160Gbps chips (IBM)=HD flick in 1sec; Asia Wimax = .3M users now, 8.4M by 2011 - electronic design 06/29/07

eCLIC and the Department of Homeland Security (DHS)

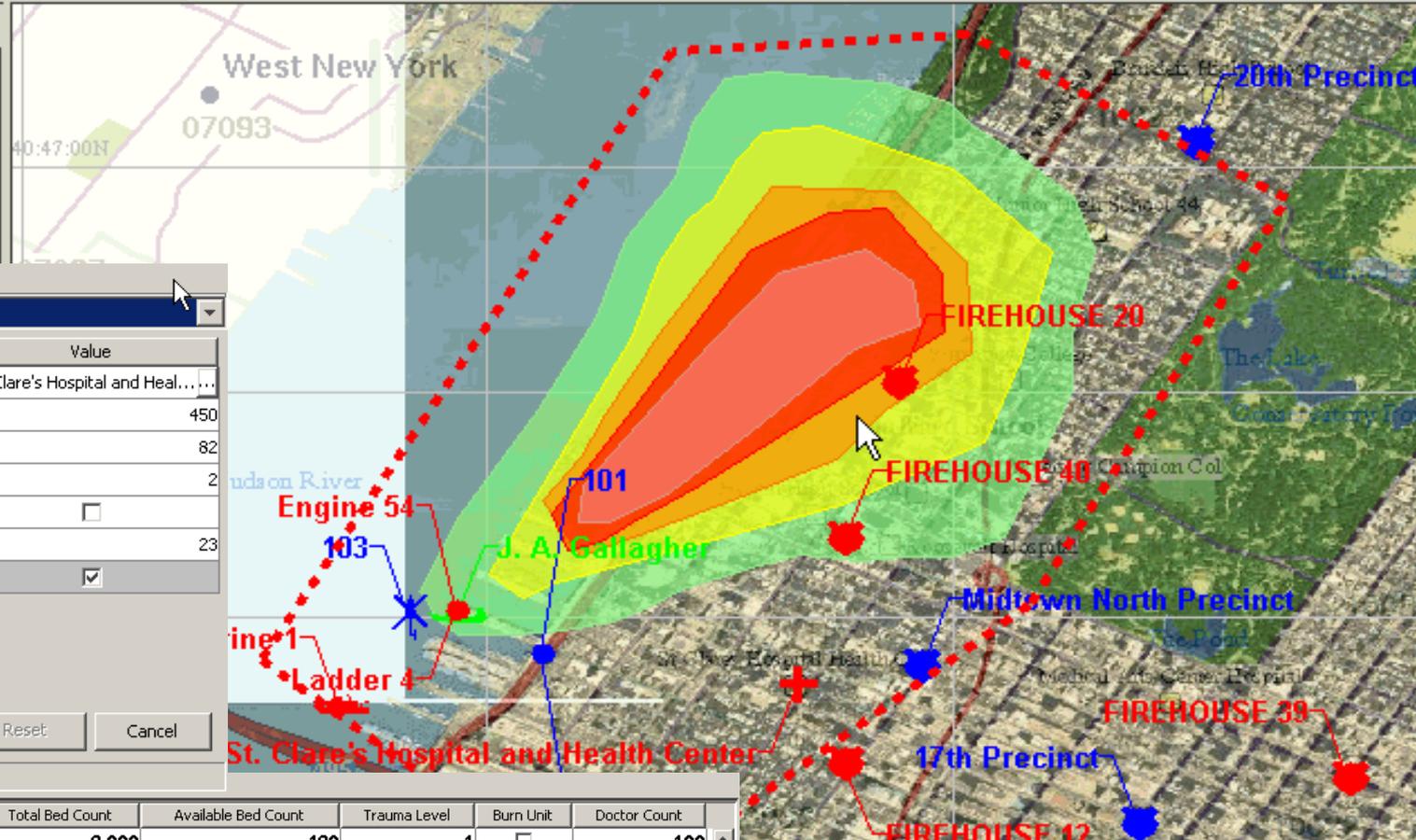
- **ERMN : Emergency Response Management Network >>> Leads to eCLIC, LINC & SeCLIC**
- \$1M DHS Pilot – CalOES Management 2003-06
- Multiple Data Transport Paths
 - WiFi, Internet, Satellites (OASIS, Other), Cellular, CalREN (California Research & Education Network)
- Common Operating Picture (COP), a “Picture of the Battlefield” ...see next slide
 - Display information from many sources / databases

Base Maps

- Selected
- Police
- Base Maps
 - ✓ Solid Map [World]
 - Elevation [World]
 - USGS Relief [US CONL]
- View
 - Preferred Attributes

Property	Value
Name	St. Clare's Hospital and Heal...
Total Bed Count	450
Available Bed Count	82
Trauma Level	2
Burn Unit	<input type="checkbox"/>
Doctor Count	23
Visible	<input checked="" type="checkbox"/>

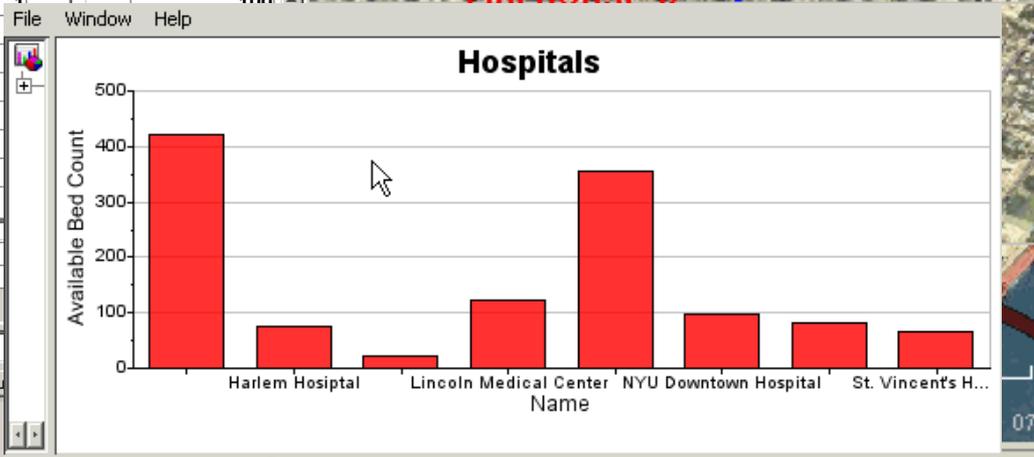
OK Apply Reset Cancel



Name	Total Bed Count	Available Bed Count	Trauma Level	Burn Unit	Doctor Count
Coler-Goldwater Specialty Hospi...	2,000	420	1	<input type="checkbox"/>	100
Harlem Hosiptal	400	76			
Lenox Hill Hospital	652	22			
Lincoln Medical Center	500	123			
Mount Sinai Hospital	1,171	354			
NYU Downtown Hospital	355	98			
St. Vincent's Hospital	758	65			
St. Clare's Hospital and Health... ..	450	82			
Sum	6,286	1,240			

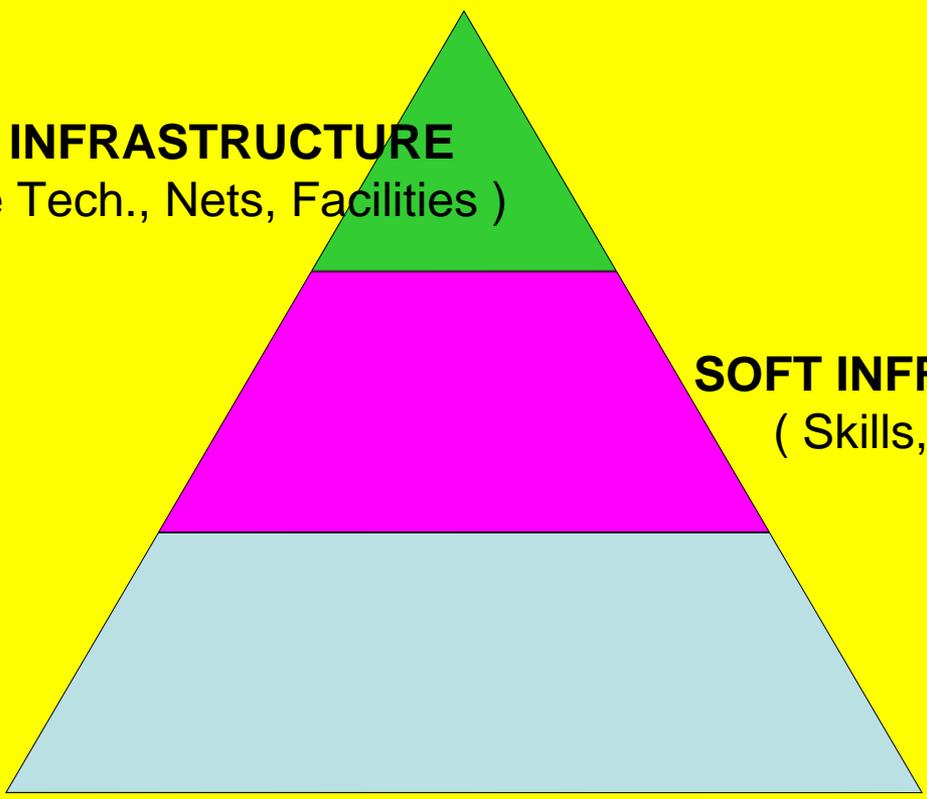
Preferred Attributes

Property	Value
Apply	Reset



eCLIC / LINC / SeCLIC “Success Triad”

Holistic...Not just Technology



HARD INFRASTRUCTURE
(Innovative Tech., Nets, Facilities)

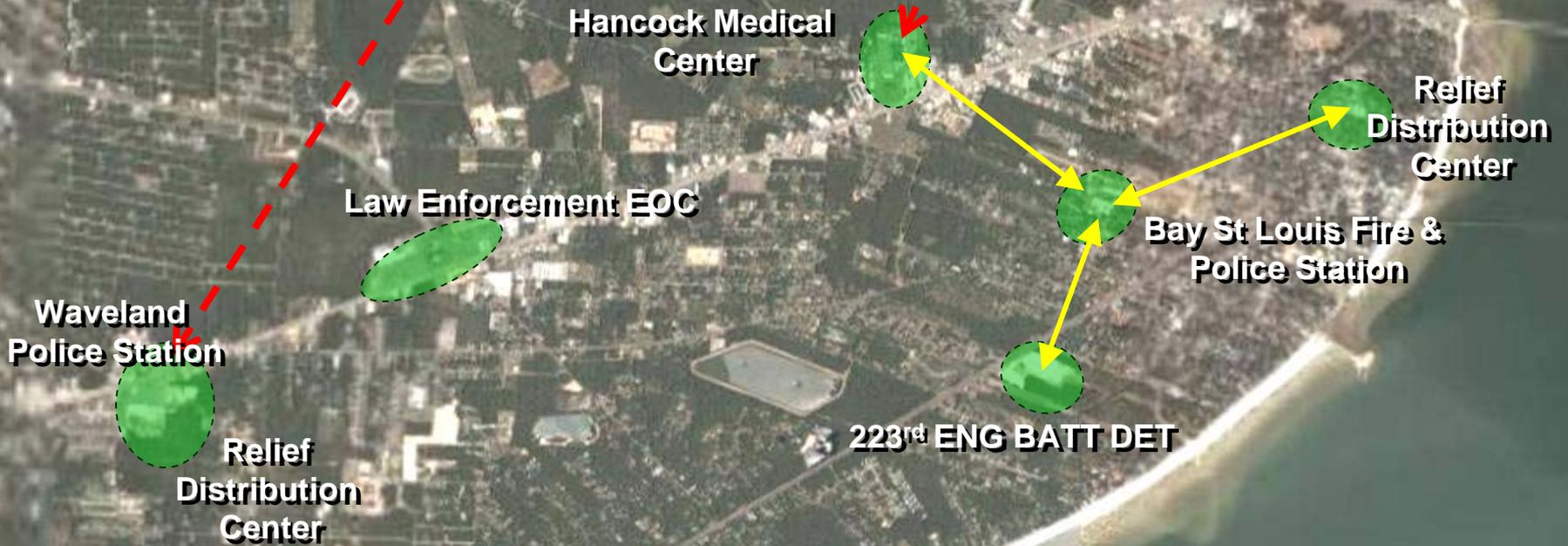
SOFT INFRASTRUCTURE
(Skills, Training, Apps)

VISIONARY LEADERSHIP (Policies, Practices, Agreements, Funds)

ERMN Unisys HFN(Sat + WiFi) tests: GGSN: Golden Gate Safety Network



NPS KATRINA Network (HFNs)



NPS DET 1 NETWORK

Tachyon Satellite ← →

802.16 Wireless ↔

802.11 Wireless ○

Collaborators, Supporters

SeCLIC - SLAC, PAFD, STANFORD UNIVERSITY ENV HEALTH AND SAFETY, UNISYS, SPACENET, CISCO, IPS, eCLIC

LINC- LIVERMORE VALLEY JOINT UNIFIED SCHOOL DISTRICT, LIVERMORE /PLEASANTON FIRE, LIVERMORE POLICE, LAWRENCE LIVERMORE NATIONAL LABS, CalOES, TRAPEZE NETWORKS, IPS, SANDIA LABS, eCLIC

- **International Advisory Board : 25+**
- **Input? Want to help us serve? - Contact: Pat Lanthier, Ilan Zorman, David Witkowski, Kimberly Cade**

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