

# **CALIFORNIA FIRST RESPONDER NETWORK (CALFRN)**

## **FIRSTNET IN CALIFORNIA TOWN HALL MEETING**

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# BAYRICS AUTHORITY

- 12-Member Joint Powers Authority established in August 2011

**Alameda County**

**City of Oakland**

**Marin County**

**Santa Clara County**

**State of California**

**East Bay Hub Cities  
(EBRCSA)**

**City/County of San  
Francisco**

**City of San Jose**

**Contra Costa County**

**San Mateo County**

**Sonoma County**

**South Bay Hub Cities**



- ▶ Purpose: To oversee and ensure the interoperability of Bay Area public safety communications networks, including FirstNet.

# PUBLIC SAFETY WIRELESS TODAY

## Voice – Land Mobile Radio

- Reliable
- Mission critical
- “Patchwork quilt” of local networks
- Limited bandwidth
- High system refresh/upgrade costs



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## Broadband Data – Commercial Cell Service

- Air cards, smart phones
- Highly interoperable
- Not “hardened” for Public Safety
- Not reliable in emergencies
- Not mission critical



# WHAT IS FIRSTNET?

- A secure, private *broadband* network exclusively for public safety
- The first nationwide wireless network for local public safety users
- Not a replacement for LMR voice communications
- What is *Broadband*?
  - High speed data communications in the field
  - Smart phone “apps,” photos, video and more



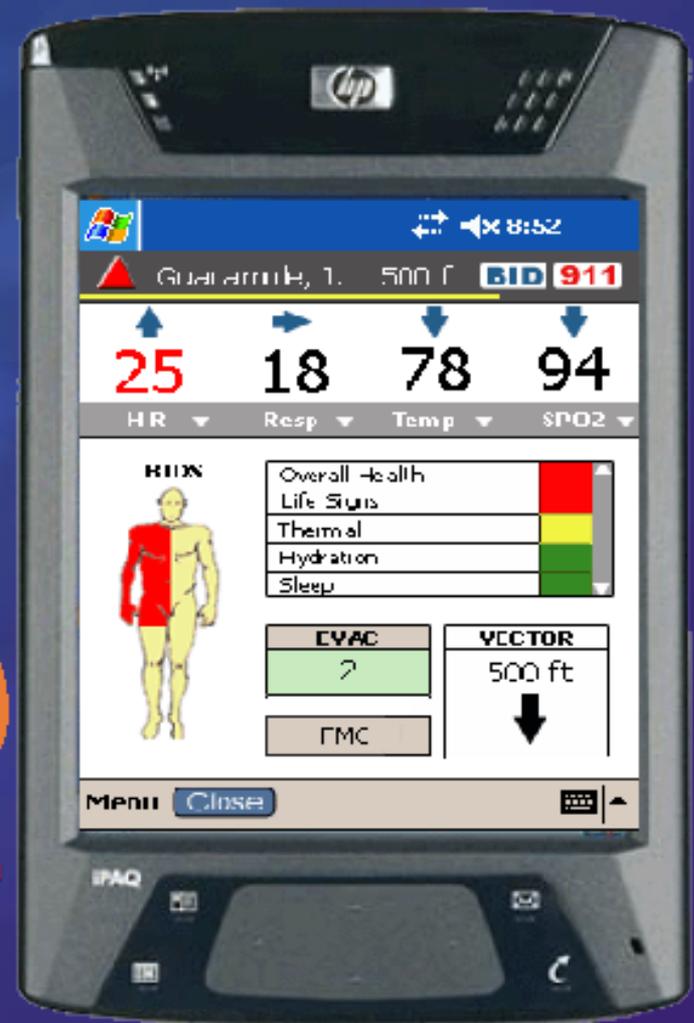
# FIRSTNET WILL SAVE TIME IN THE GOLDEN HOUR

- One network for dispatch and support of EMS, law and fire personnel from different jurisdictions
- EMS chiefs and commanders will have local control:
  - Assign and give priority to users on-the-fly
  - Assign priority access for applications
  - Enhance situational awareness and decision-making
  - Roll out new tools to support more effective response
- EMS personnel will share real-time data, audio and video with hospital staff:
  - Access incident status and medical histories before arriving at the scene
  - Improve all phases of pre-hospital care
  - Provide hospitals with advance, real-time information on patient status and immediate needs



Electronic Health Record

Portable PSCD Type Platform



Speech Recognition Input

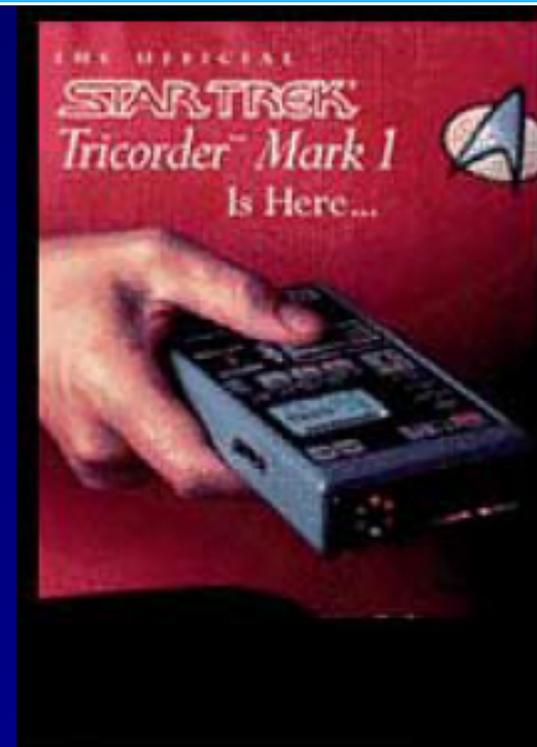


Wireless Patient Monitoring



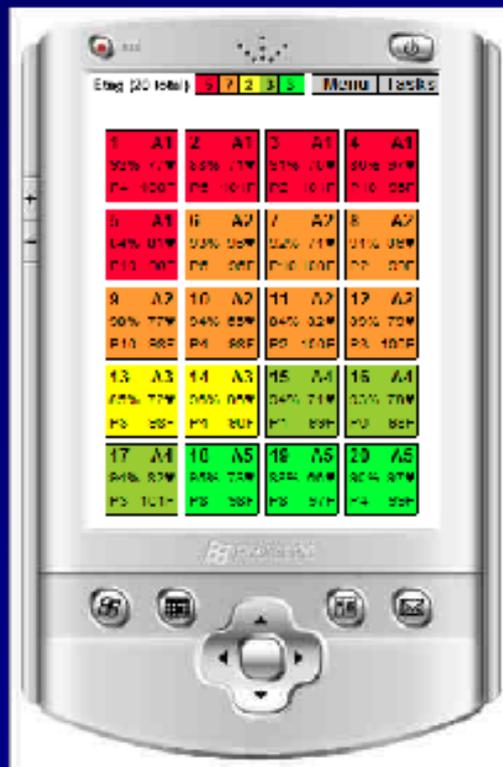
## ■ Other Applications

- 2 Way Video (Virtual MD/Community Paramedicine)
- Stand Off VS Monitoring
- Portable CT Scan (Images)
- Portable Ultra Sound (Video & Images)



## Other Technologies

- Multiple Patient Monitoring (Mass Casualty Incident)
- Multiple Responder VS Monitoring
- Infra Red Crowd Disease Detection



# FIRSTNET STATE CONSULTATION

- FirstNet “shall take all actions necessary” to build and operate the nationwide public safety broadband network, “in consultation with Federal, State, tribal, and local public safety entities”
  - Construction of the network
  - Placement of towers
  - Coverage areas of the network
  - Security, reliability, and resiliency requirements
  - Selection of entities who may use the network
  - Assignment of priority to local users
  - Training needs of local users
- **FirstNet will need help from state and local agencies!**

# PREPARING FOR FIRSTNET

1. Do You Have Local Stakeholders Engaged?
  - Key Decision-Makers
  - Educate and Stay Informed
2. Have You Identified your Users?
  - Law, Fire, EMS
  - Other First Responders
  - Secondary Users
3. Local Governance Plan?
  - Who can use
  - Who has Priority
  - Identity Management
  - User Support
  - Training/Exercise



# PREPARING FOR FIRSTNET (PHASE TWO)



4. Have You Identified Potential Sites and Assets?
  - Radio sites
  - Connectivity to PSAP/dispatch centers
  - Fiber optic cable or microwave facilities
  - Who controls these assets?
5. Are you Up to Speed on:
  - Minimum Service Requirements
    - Coverage/Capacity (mobile, portable, in-building)
    - Throughput (how fast is the network)
    - Security
  - Costs
  - User Devices (mobile, handheld, tablets)
  - Public Safety Applications

# FOR MORE INFORMATION

- First Responder Network Authority (FirstNet)
  - [www.FirstNet.gov](http://www.FirstNet.gov)
  - Public Safety Advisory Committee (PSAC)
- California First Responder Network (CalFRN)
  - California Office of Emergency Services (OES)
  - FirstNet State Point of Contact (SPOC): Karen Wong
  - [www.calema.ca.gov](http://www.calema.ca.gov)
- BayRICS Authority:
  - [www.BayRICS.net](http://www.BayRICS.net)
  - [info@BayRICS.net](mailto:info@BayRICS.net)