CALIFORNIA FIRST RESPONDER NETWORK (CALFRN)

FIRSTNET IN CALIFORNIA TOWN HALL MEETING

BARRY FRASER, GENERAL MANAGER
Bay Area Regional Interoperable Communications
Systems Authority (BayRICS)
BFraser@acgov.org
www.BayRICS.net
September 24, 2014

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

▸ <u>Purpose:</u> 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

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 <u>exclusively for public safety</u>**

- **The first <u>nationwide</u> wireless network for <u>local</u> public safety users**

- **<u>Not</u> a replacement for LMR voice communications**

- What is *Broadband*?

  - High speed data communications in the field
  - Smart phone "apps," photos, video and more

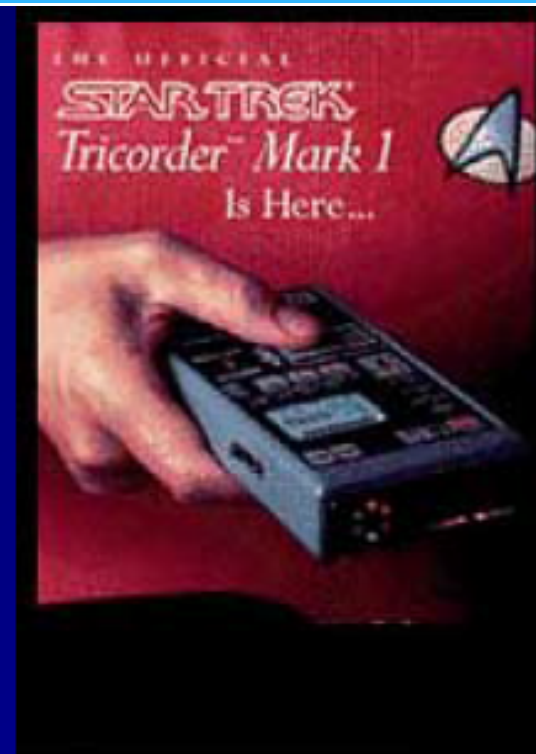# FIRSTNET WILL SAVE TIME IN THE GOLDEN HOUR

- 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
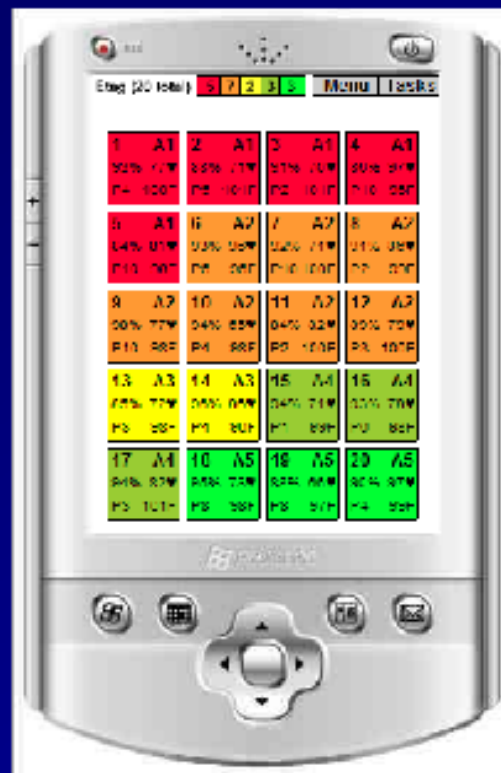
Diagram content courtesy of the Department of Defense, Telemedicine & Advanced Technology Research Center

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
  - 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
  - BayRICS Authority:
    - www.BayRICS.net
    - info@BayRICS.net