

# **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  
July 16, 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**



- ▶ 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



## Broadband Data – Commercial Cell Service

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

# 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

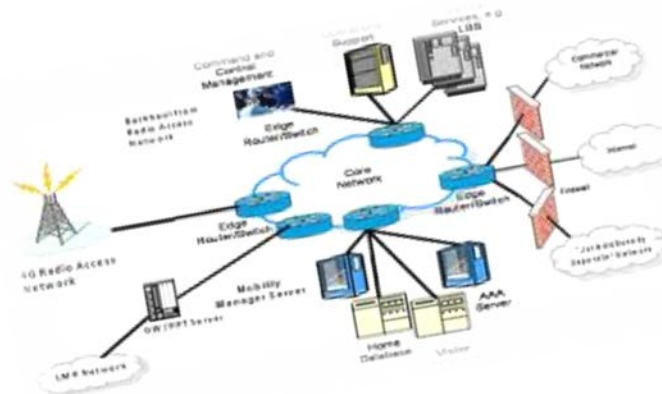


# FIRSTNET CONSULTATION REQUIREMENTS

- 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'S “TO DO” LIST

- Develop sustainable business model
- Develop nationwide core network plan
- Develop 56 individual state radio access network plans
- Conduct and award RFPs for services and equipment
- Establish mobile device standards and markets for public safety devices, smart phones and tablets
- Oversee network build-out and operations
- Outreach, education and training
- Timeline, project plan & cost: TBA
- **FirstNet will need help from state and local agencies!**



# PREPARING FOR FIRSTNET

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



# PREPARING FOR FIRSTNET



4. 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:
  - Design Specifications
    - Coverage/Capacity (mobile, portable, in-building)
    - Backhaul Design
    - Security
    - Cost
  - User Devices (mobile, handheld, tablets)
    - Current devices must be refreshed
  - Public Safety Applications



# PUBLIC SAFETY APPS

- Streaming video/photos/in-field ID
- Large file transfer/download (floor plans, evacuation plans)
- Law enforcement tools (license plate reader, facial recognition, field fingerprinting)
- GIS/Mapping tools
- Database queries
- Field reporting
- Next Generation (NG) 9-1-1 texts, photos, data
- Non-Mission Critical Voice



# 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)