



WIRELESS SERVICES DIVISION

*HPWREN Users
Conference*



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- **Concept**

- The Sheriff's Department, The University of California at San Diego and San Diego State University will enter into a cooperative arrangement to research and develop technologies essential to the Homeland Security initiatives
 - Sheriff's Department does not have discretionary funds for High Tech R&D
 - Universities have excellent R&D facilities and resources
 - Homeland Security provides compulsion for public entities to interact for the public welfare



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- Established beneficial relationship with HPWREN
 - Shared mountaintop facilities
 - Access to HPWREN Network cameras
 - HPWREN presence in Sheriff's Department Operations Center (DOC)
 - HPWREN presence in County Office of Emergency Services (OES) Emergency Operations Center (EOC)



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- Test Bed Projects FairSher and SkyCastles
 - Project Goal
 - Research and Development of rapidly deployable wireless technologies into the San Diego County Public Safety Environment utilizing the San Diego County Fair and the Imperial Beach Sand Castles events.
 - Deployment Objectives
 - Research devices providing operational benefit
 - High speed point to point wireless data network
 - Video Cameras, fixed and pan/tilt/zoom
 - Pyrotechnic sensors
 - Personnel location technologies
 - Crowd dynamics measurement and identification

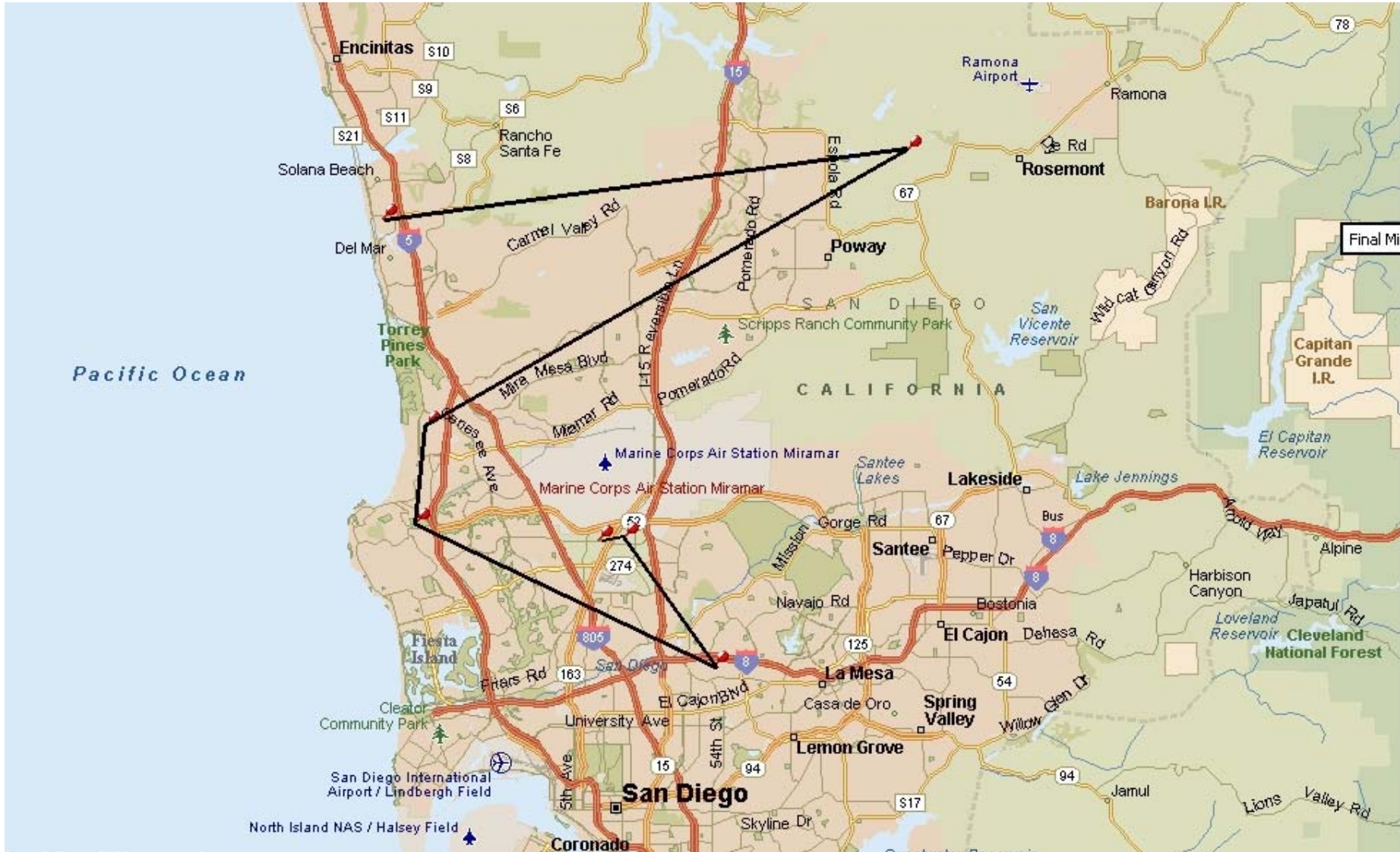


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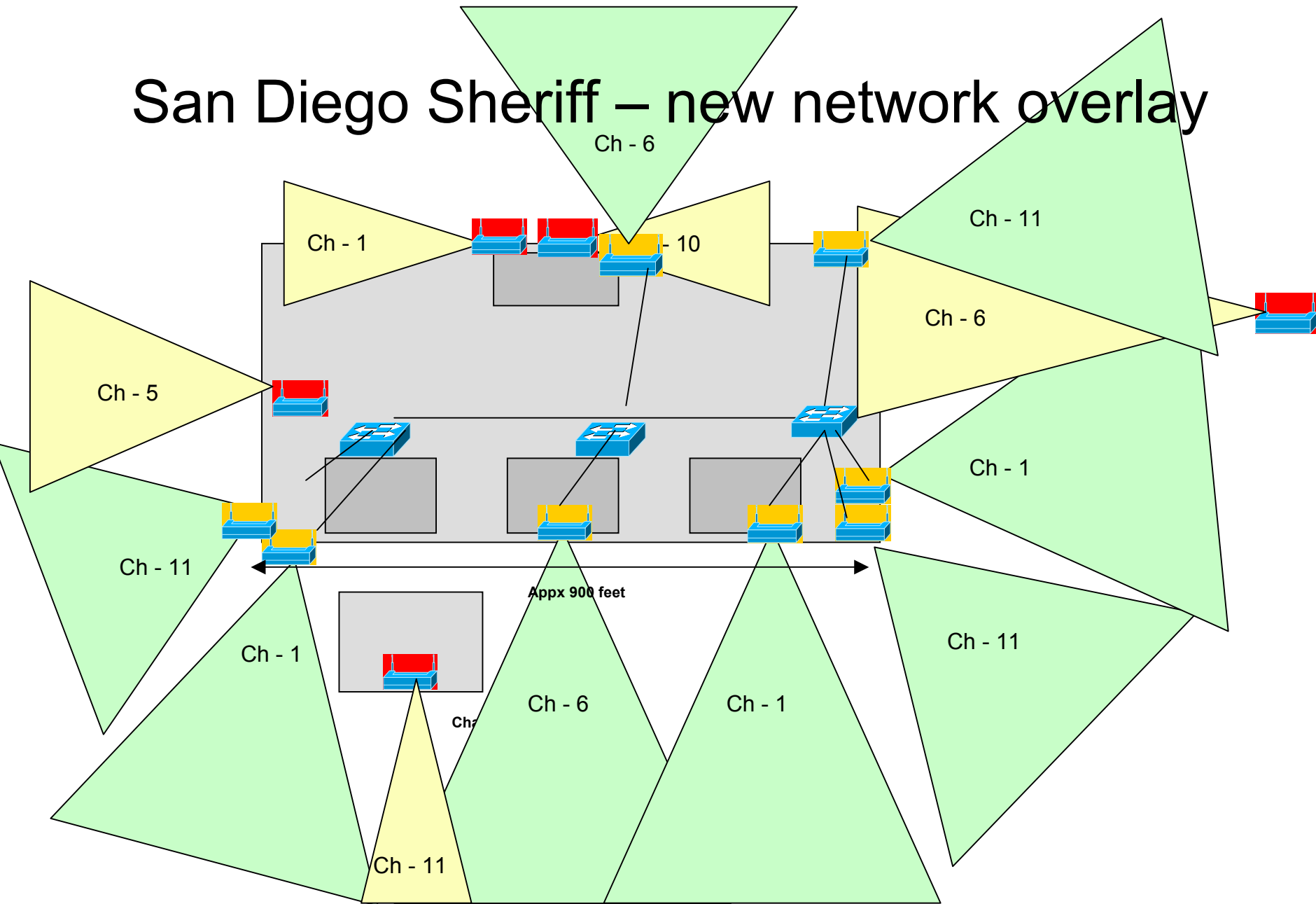
- Deployed Devices
 - Point to Point Wireless High Speed Data Network
 - Remotely Controlled Video Devices
 - Pyrotechnic Sensor
 - Crowd dynamics monitoring
 - WiFi bubble
- Devices Not Deployed
 - Personnel Location Devices
- On Going Development
 - Sustained Test Bed opportunities on both locations



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San Diego Sheriff – new network overlay





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- Ongoing Projects
 - Develop a sustainable test bed environment
 - Participate in the Mother Goose Parade event
 - Develop a grant proposal in cooperation with the Universities
 - Develop a Regional Wireless Wide Area Network Plan