

Next - Generation Incident Command System

(NICS)

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NICS

- ◆ Situational awareness and commander collaboration at the incident level
- ◆ Directly impacts decision making at the front line
- ◆ An ICS/NIMS – based tool set

NICS is a Collaborative Project

Sponsor



Coordinator of Operational Participants



California Emergency Response Community

Developer



Federally Funded Research
& Development Center

Funded 2007-2010

Tribal

Military

State

Local
Govt

Federal

County

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Funded 2010-2013 *

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* Also County of San Diego; San Diego Gas & Electric; USCG

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Tribal Military State
Local Federal County
Govt

Substantial In Kind Contribution

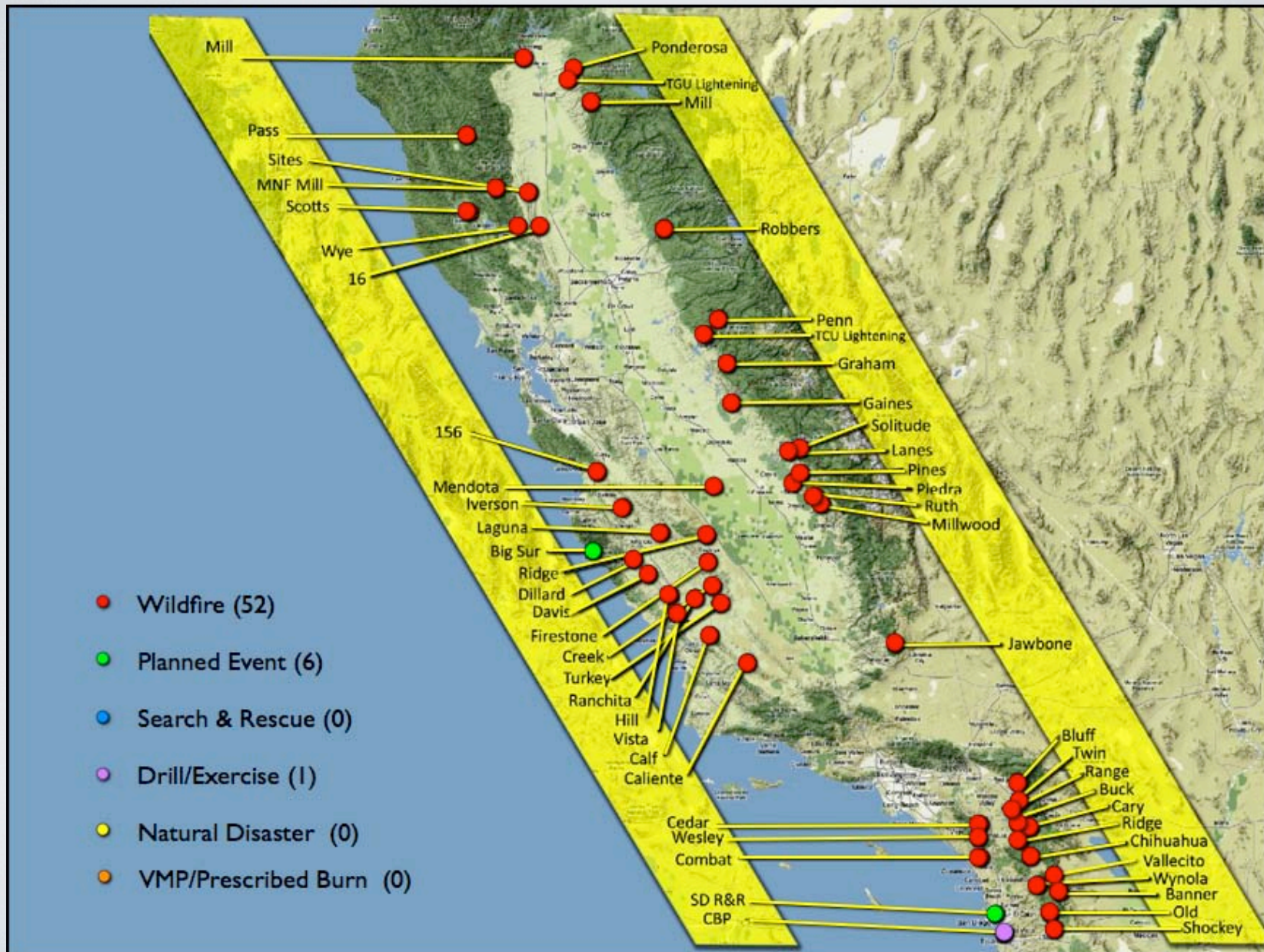
Riverside Flooding 21-23 Dec 2010



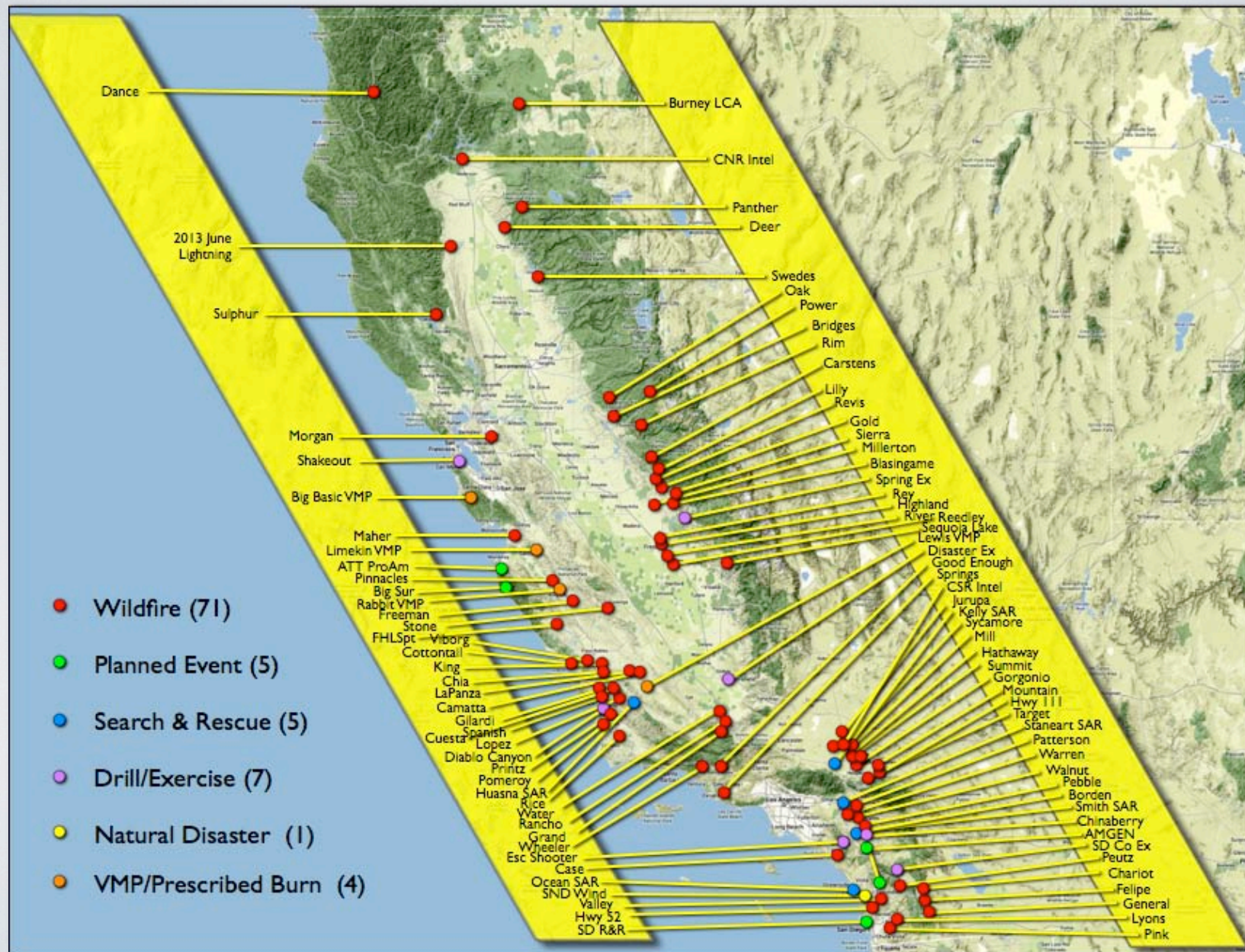
Chief Hawkins
briefs Board of
Supervisors using
NICS live

Chief Toups online with NICS

2011 - 2012



2013





1,700 registered users
270 registered organizations

Federal - Tribal - Military - State - County
Local Government - non-govern org (NGO)
Commercial - Other.....

Fire-Rescue Law Enforcement
Emergency Management Utilities.....

NICS Key Design Principles Vs Shortcomings of ICS 1.0

Shortcomings of ICS 1.0

Based on paper & pencil



Shortcomings of ICS 1.0

Dependent on voice-over-radio

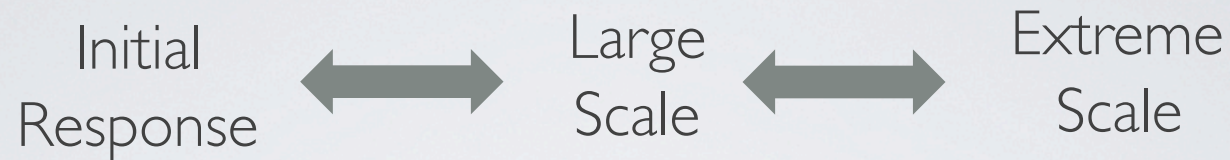


Shortcomings of ICS 1.0

Relies on face-to-face meetings for coordination & collaboration



I. Seamless Scalability

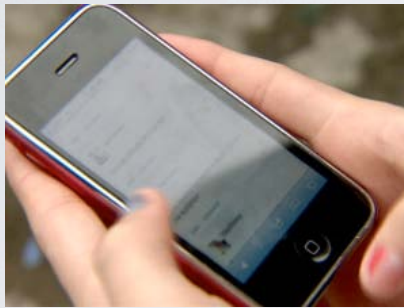


- ✓ 1,000s users
- ✓ 100s of organizations
- ✓ Dozens of incidents

..... simultaneously

2. Network to the “edge”

- Connect the most remote responders
- Resilient network operating conditions



3. Technology Neutral -- Web-Based

Any device, any operating system, any browser



* Except Internet Explorer 8 or earlier

4. “App Store” development approach

Anyone can contribute: commercial, academia, govt, station or precinct, private citizen.....

Apps Added Feb 2012 – Feb 2013

■ GST - Vendor supported AVL integration (Automatic Vehicle Location)	■ HPWREN Camera/Weather - Camera & Weather data for San Diego & Riverside Counties (High Performance Wireless Research & Education Network)
■ NOAA/NWS - Numerous weather feeds to include	■ GPSGate - Vendor supported AVL integration
■ EIVIEW/Census- US census data inquiry tools	■ GPSResponder - Vendor supported AVL integration
■ RCIP- San Diego County AVL provided data/ CAD AVL	■ SARapp - Vendor provided PLI integration search and rescue tools for cell phones
■ Delorme - Vendor supported PLI integration (position location information)	■ SDGE - Weather feeds from 144 automated weather stations; ODIN airborne camera
■ Geo-Coding - MIT LL developed position location & reverse geocoding tools	■ DTS Wildfire - Vendor provided wild land fire spread modeling tools
■ ROSS - integration of CAL FIRE provided incident specific data from federally funded ROSS application (Resource Ordering & Status System)	■ U.S. National Grid System / Military Grid Reference System - integration of FEMA required position location map reference system
■ Secure Rooms - MIT LL developed capability to make specific rooms private and by-name-only entry	■ American Red Cross Disaster Operations Center (DOC) integration; evacuation center management

5. All-Hazard / All-Risk



5. All-Hazard / All-Risk



GO 166:

Storms
Lightening Strikes
Fires
Floods
Hurricanes
Volcanic Activity
Landslides
Explosions
Airplane Wrecks

Earthquakes
Windstorms
Tidal Waves
Terrorist Attacks
Riots
Civil Disobedience
Wars
Chemical Spills
Train Wrecks



6. Technology for the TIRED – DIRTY - HUNGRY



Dirt simple to learn
Dirt simple to use

NOT intended to do everything

If you can do this.....



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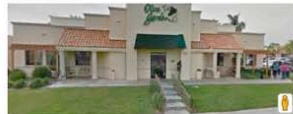
Olive Garden

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soup & salad · fettuccine alfredo · grilled chicken ·
chicken parmigiana · meat sauce

"I was in San Diego on holidays recently (I'm from
Australia). ..."



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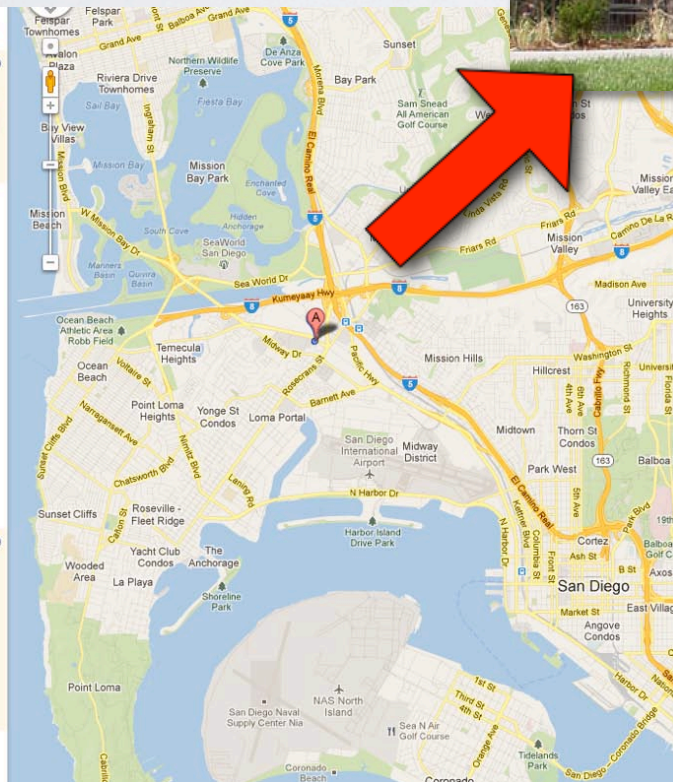
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...we can teach you NICS
in 60 minutes or less

7. No cost to emergency responders

- Not owned by a vendor
- An open source, community project

Questions?

