



Next - Generation Incident Command System

(NICS)

Helpful Info

NICS Homepage: <http://nics.LL.mit.edu>

Wildfire Today Article: <http://wildfiretoday.com/2014/02/10/new-communication-tool-enhances-incident-management/>

YouTube Video: http://youtu.be/mADTLY0t_eM

SARApp: <https://public.nics.ll.mit.edu/nicshelp/> ➔ Documents

* * 3rd Annual NICS Users' Group Meeting - 2-3 April 2014
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NICS

- ◆ *Situational awareness and commander collaboration starting at the incident level and instantly available to all other authorized decision makers in the NICS community.*
- ◆ NICS = tools, technologies, & CONOPS
- ◆ *Information sharing tightly controlled.*
- ◆ *Directly impacts decision making at all levels of C².*
- ◆ An ICS/NIMS - based tool set; rooted in ICS/NIMS structure, processes, and procedures.
- ◆ “Compressing the decision cycle from 12 hours to 12 minutes.”

NICS is a Collaborative Project

Sponsor



Developer



Federally Funded Research
& Development Center

Funded 2007-2010

Coordinator of Operational Participants



California Emergency Response Community

Tribal

Military

State

Local
Govt

Federal

County

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Funded 2010-2013 *

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Federal

County

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

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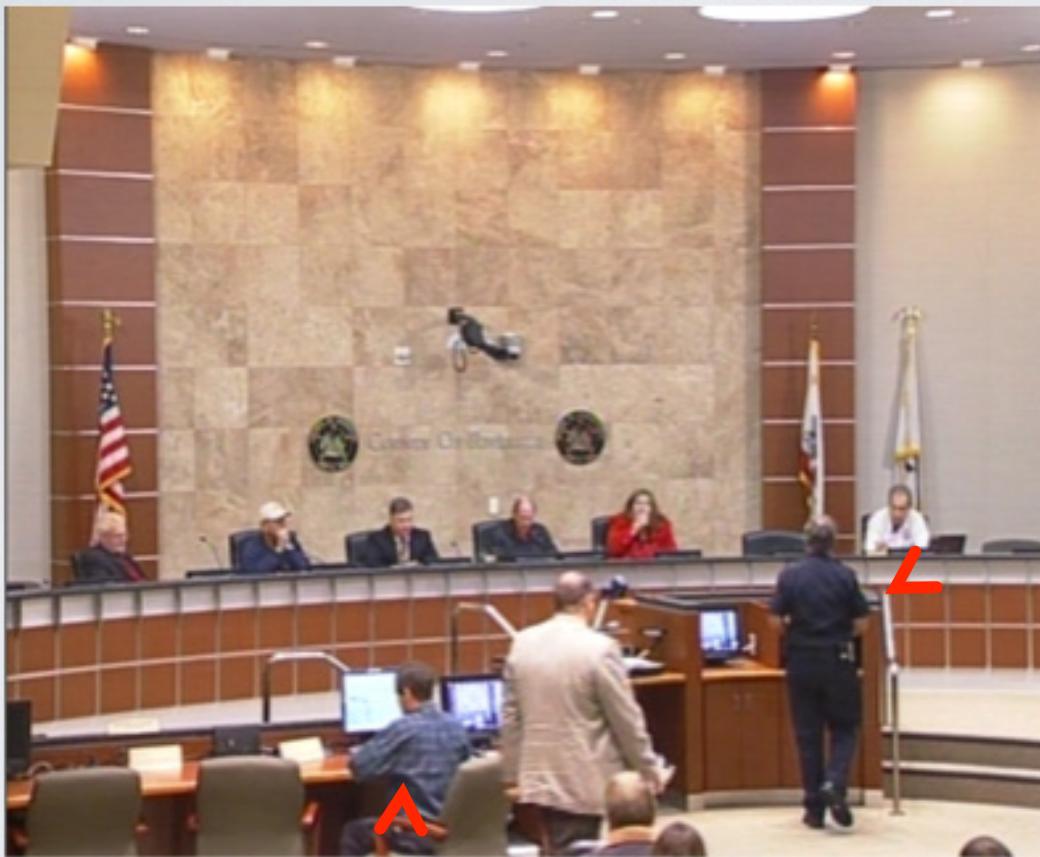
Local
Govt

Federal

County

Substantial In Kind Contribution

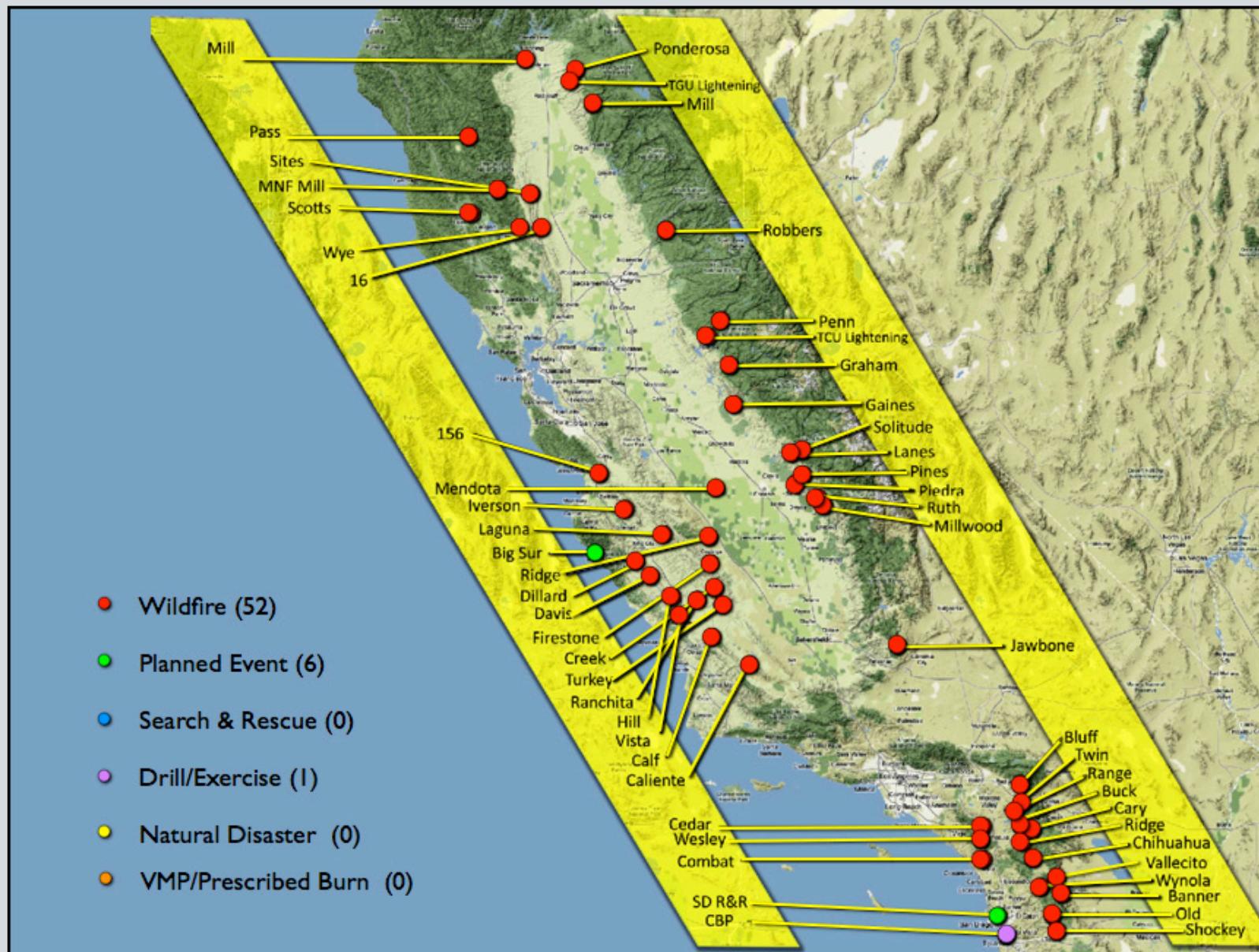
1st Use of NICS: Riverside Flooding 21-23 Dec 2010



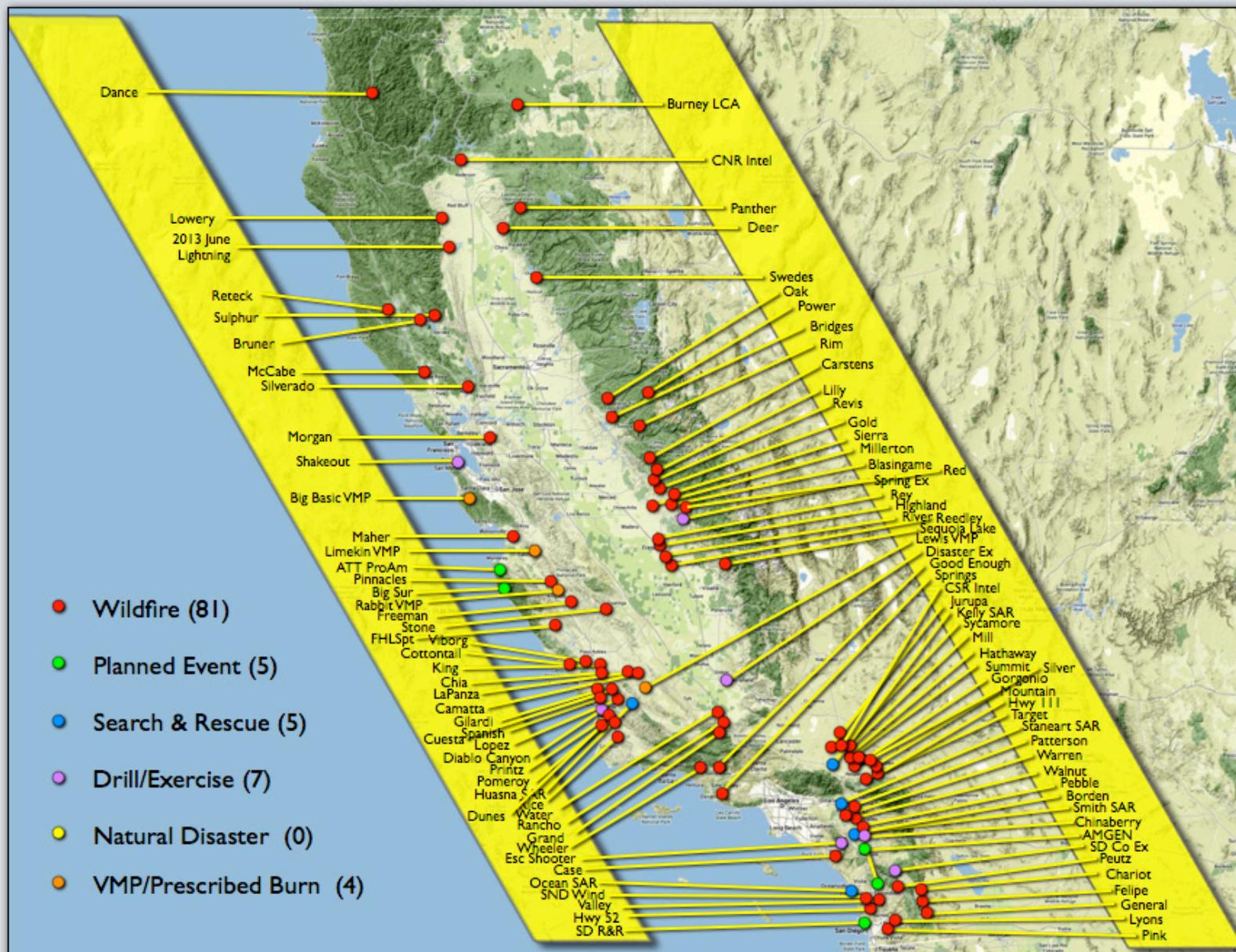
Chief Hawkins
briefs Board of
Supervisors using
NICS live

Chief Toups online with NICS

NICS Uses 2011 - 2012



NICS Uses 2013





1,950 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.....



1,950 registered users
270 registered organizations

Users:

1,550 - California

400 - Other (mostly MA National Guard
& State Fire Service)

Outside California

Alaska
Connecticut
DC
Georgia
Idaho
Kansas
Kentucky
Louisiana
Massachusetts
Minnesota
Montana
Nevada
New Hampshire
New Jersey
New York
Oregon
Pennsylvania
Rhode Island
Utah
Virginia
Washington
West Virginia
Virgin Islands



REDCOM



Challenges of ICS 1.0

Residual Implementation Artifacts from the 1970s

Artifacts of ICS 1.0

Based on paper & pencil



Artifacts of ICS 1.0

Dependent on voice-over-radio



Artifacts of ICS 1.0

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



8 NICS Key Design Principles

I. Adherence to ICS/NIMS

- Rooted in ICS structure, policies, and procedures
- Focused at the incident command level

2. Seamless Scalability



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

..... simultaneously

3. Network to the “edge”

- Connect the most remote responders
- Resilient network operating conditions



4. Technology Neutral -- Web-Based

Any device, any operating system, any browser



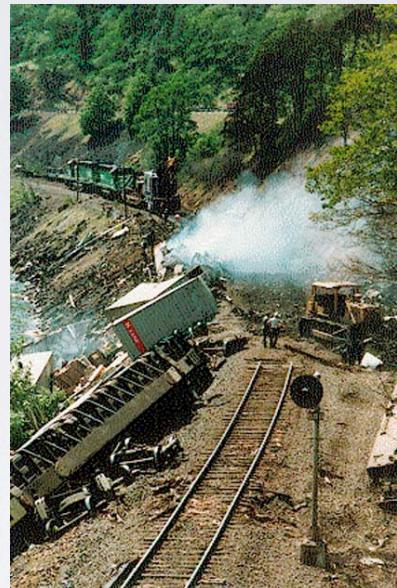
* Except Internet Explorer 8 or earlier

5. “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
■ ElView/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

6. All-Hazard / All-Risk



6. 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



7. 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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22 29 reviews \$\$

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

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



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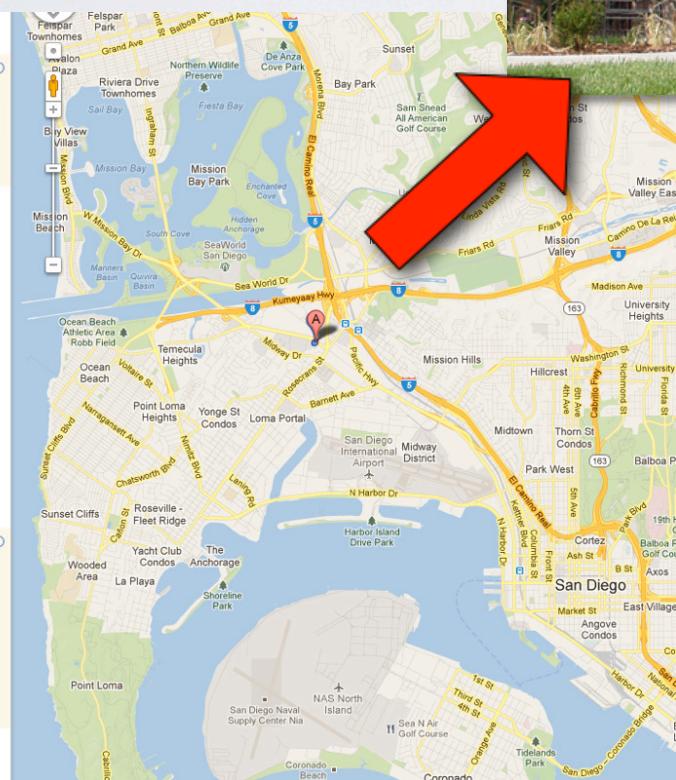
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...we can teach you NICS
in 60 minutes or less

8. No cost to emergency responders

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

Questions?

