SoCal Catastrophic EQ Plan Collaborative Planning Effort



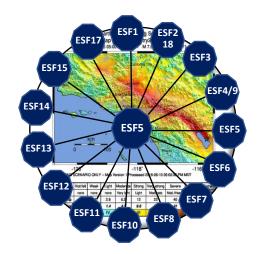
# **2018 CUEA Annual Conference**

## Informational Update Briefing

### June 28, 2018

Patrick T. Hammond Sr. Cal OES SESC, Disaster Planning Unit Patrick.Hammond@caloes.ca.gov Office: 916.845.8777 Cell: 916.508-6089 Troy Miller FEMA RIX Operations Planner Troy.Miller@fema.dhs.gov Office: 510.627.7109 Cell: 510.851.2854

### Collaborative Planning Integration



State/Federal ESF "Support Concepts" helping formulate a unified community response for all twelve counties (Imperial, Inyo, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Tulare, Ventura and 41 Tribal Nations).

## **Informational Briefing Overview**

- Purpose, Mission, Lead Planners Focus
- Planning Process Where We Are Now
- Where We Go From Here
- Core Capability Analysis Fact Sheet Development
- Collaborative Planning Update Lines of Effort
- Threat / Risk SoCal Complex Fault System
- ESF Synchronization of Planning Factors
- Planning Relationships Across the Disaster Life Cycle
- Senior Leader Support Concept for Approval
- Operational Timeline and Operational Arc
- Operational Coordination Complexity
- Concept of Operation Operational Phases
- Initial Operational Support Structure (E through E+72)
- Operational Coordination Data Collection Process
- Situational Assessment
- Operational Coordination Way Forward
- Base Operational Planning Surface Access Corridor Concept
- Aviation Support Concept (Air Bridge) / Critical Lifelines Restoration
- Upcoming Event Schedule
- Training Gaps

## Purpose

The purpose of this Information Coordination Briefing is to present the Senior Leaders of ESF 12/California Utilities Emergency Association (CUEA) with the results of the Joint Southern California Catastrophic Earthquake planning process to date and <u>to better understand the planning factors, facts and assumptions, Mission</u> <u>Statement, Senior Leaders' Intent, Operational Phases, Core Capability Objectives</u> <u>and ESF Support Concepts.</u>

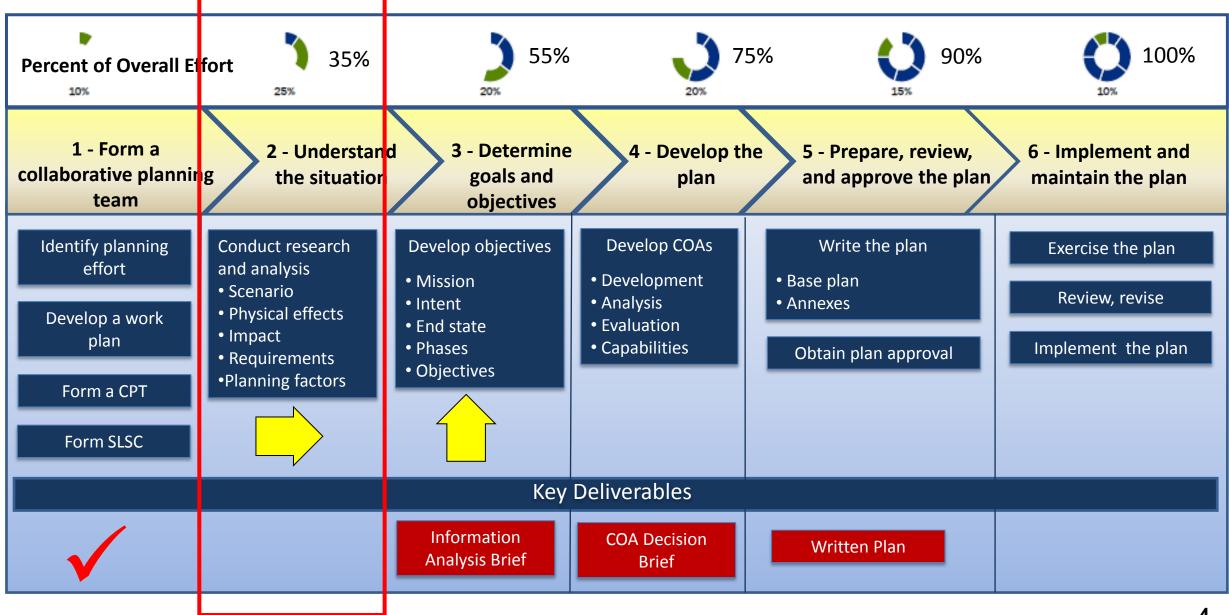


## Mission

A joint unified effort of local, county, state, tribal, federal, private sector, and nonprofits emergency response organizations to save and sustain life, minimize suffering, stabilize and restore critical infrastructure, and set the conditions for recovery.

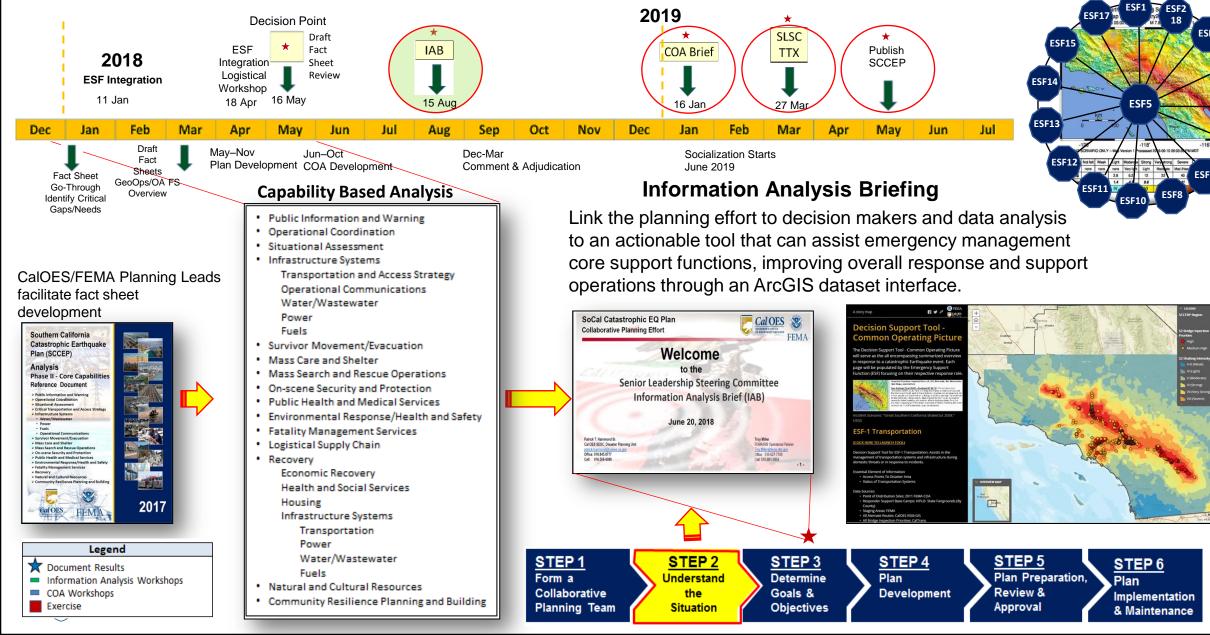
# **Lead Planners Focus** – Develop an operational/functional catastrophic plan that can be implemented in with no notice.

## Planning Process–Where We Are Now



## **Where We Go From Here**

**Completing the Capability Based Analysis and Moving to Course of Action Development** 



Collaborative Planning Integration

## Scenario (S2 – 7.8M San Andreas Fault Rupture Zone)

### Core Capability Analysis Fact Sheet Development Laid out in the December 2017 Approved Work Plan

- A analysis by SMEs of system disruptions and emergency capabilities
- Format = white paper
- Summarizes:
- Operational impact vulnerabilities and potential failure points for systems supporting Southern California Mass Care and Shelter Support Concept.
- 2. Planning factors Requirements to support communities and jurisdictions based on known and anticipated needs of Operational Areas, responsible organizations, and communities.

#### **Developed for:**

- Used to inform operational decisions and develop a factual basis for the plan.
- Analysis by experts ensures risk based approach to systems that support and sustain emergency managers and survivors.

#### **Sources of Facts**

- Old plan from 2011 update needed (Focus Areas)
  - Operational Coordination
  - Survivor Movement & Evacuation / Mass Care and Shelter
  - Critical Lifelines Corridor Restoration Cajon Pass Workshop
  - Logistical Supply Chain & Commodity Movement Workshop
  - Long Term Recovery (SDRF/NDRF)
- Bay Area Earthquake Fact Sheets (data/example format)
- Scientific studies on catastrophic response/restorations/*recovery* operations.
- Best Practices and Lessons Learned (Catastrophic Response/Recovery)
- ESF Capabilities within the State, Private Sector and Federal to respond, mitigate, and support recovery operations.
- ESF FS Coordinated Working Group SMEs to provide a Collaborated Multiagency Fact Sheet that identifies:
  - Mission, Purpose, Concept of Operations, Assumptions, Gaps, Constraints, Organizational Structure, Interdependencies, Critical Information Requirements
  - Resource phasing and Support Requirements
  - Sustainment/Recovery Operations



## **Capability Based Analysis**

### **Fact Sheet Development**

- Public Information and Warning
- Operational Coordination
- Situational Assessment
- Infrastructure Systems Transportation and Access Strategy Operational Communications Water/Wastewater Power

Fuels

- Survivor Movement/Evacuation
- Mass Care and Shelter
- Mass Search and Rescue Operations
- On-scene Security and Protection
- Public Health and Medical Services
- Environmental Response/Health and Safety
- Fatality Management Services
- Logistical Supply Chain

Recovery

 Economic Recovery
 Health and Social Services
 Housing
 Infrastructure Systems
 Transportation
 Power
 Water/Wastewater
 Fuels

 Natural and Cultural Resources

Community Resilience Planning and Building



### **Senior Leader Outcomes**

At the conclusion of IAB, decision makers will provide input on <u>response and</u> <u>recovery operational support concepts</u> to ensure sufficient planning was conducted for:

- Accurately Assessing the Situation
- Establishing Priorities
- Gaining Access to affected areas via multiple modes
- Conducting Life-Saving / Life-Sustaining Operations
- Facilitating Information Sharing
- Expediting Environmental Compliance
- Restoration of critical lifelines and affected Communities

Moving forward to Course of Action (COA) Development

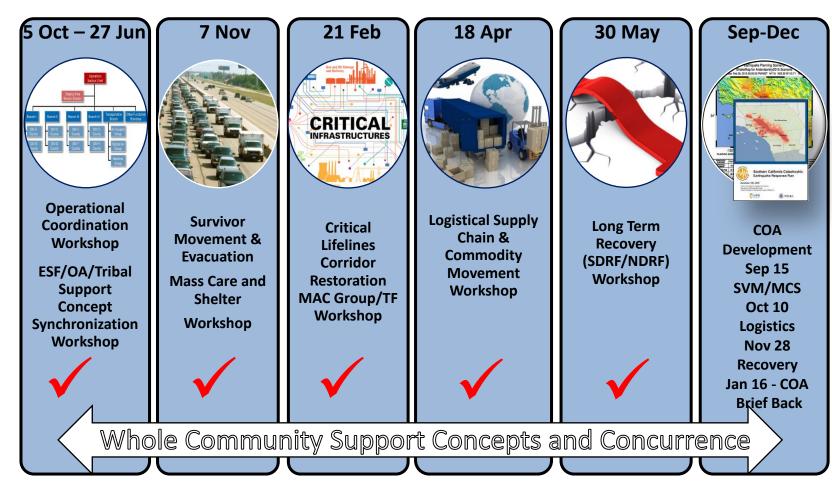


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## **Collaborative Planning Update Lines of Effort**

### Planning Effort/Enhancements to Existing 2011 Catastrophic Plan



#### **Outcomes/Improvements:**

- Operational Coordination Workshop
  - Initial Operational Structure/Consensus
  - Geographic Operational Branches/Divisions
- Survivor Movement & Evacuation / Mass Care and Shelter Workshop
  - Law Enforcement Leads/Coord. ESF13/1/6/7/12
  - Support Concept (Gen. Pop/Medical/Animal)
  - Support Concept (Shelter, Feeding, AFN)
  - Need for High Density Shelter Manager Training
- Critical Lifelines Corridor Restoration Cajon
   Pass Workshop
- Operational Support Structure/Consensus
- Cajon Pass Critical Information Requirements
- Port of LA/LB Executive MAC Group T&E
- Logistical Supply Chain & Commodity Movement Workshop
  - OA Priorities, Objectives, Critical Needs
  - Throughput Coordination ESF7/1/OAs
  - Planning for State/Federal SA/RSB/ISBs
- Long Term Recovery (SDRF/NDRF) Workshop
  - Incorporate lessons learned and best practices
  - Develop RSF Annexes for the SDRF/Fact Sheets

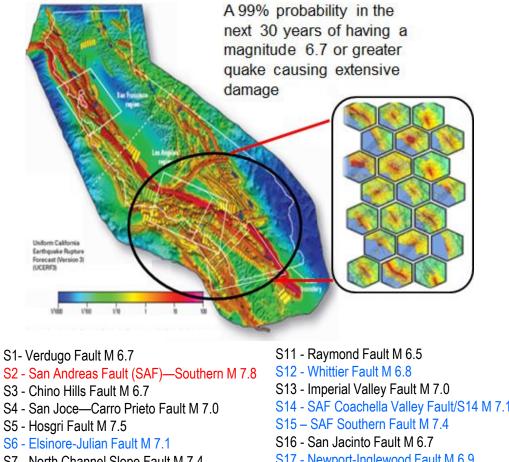




## Scenario (S2 – 7.8M San Andreas Fault Rupture Zone)

#### SoCal Complex Fault System

#### Threat/Risk – UCERF 3 21 Separate Fault Rupture Zones



- S3 Chino Hills Fault M 6.7
- S4 San Joce—Carro Prieto Fault M 7.0
- S5 Hosgri Fault M 7.5
- S6 Elsinore-Julian Fault M 7.1
- S7 North Channel Slope Fault M 7.4
- S8 Puente Hills Fault M 7.1
- S9 San Joaquin Hills Fault M 6.6
- S10 Elsinore Fault M 6.8

- S17 Newport-Inglewood Fault M 6.9
- S18 Palos Verde Fault M 7.1
- S19 Santa Monica Fault M 6.6
- S20 Rose Canyon Fault M 6.9
- S21 SAF (1857 Rupture) M 7.8

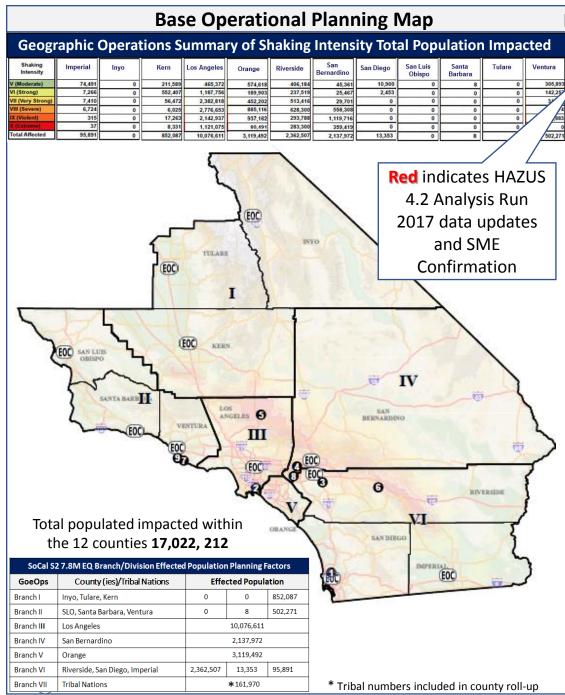
California Geological Survey, U.S. Geological Survey, and Southern California Earthquake Center, UCERF3: A new Earthquake Forecast for California's Complex Fault System, 2015 has identified a 99.7% chance of having a magnitude 6.7 or larger earthquake during the next 30 years, on faults near Los Angeles, California. The probability of an earthquake of this magnitude on the southern segment of the San Andreas Fault in the next 30 years is 78%.

The primary scenario for the Southern California Catastrophic Earthquake Plan is a 7.8 magnitude (M) on the Southern San Andreas Fault (SSAF). The epicenter is N33.35 W115.71, depth 7.6 km. The fault extends from the Salton Sea in Imperial County and continues northwest to LA County. The size and intensity of this earthquake is estimated at 50 times great than the Northridge Earthquake experienced in 1994.

#### Loss Estimation Modeling for Situational Planning Analysis

- 177,858 injuries, 12,750 deaths
- 1,046,534 buildings will be at least moderately damaged
- 186,167 displaced households (~ half need extended shelter)
- **\$232 billion** of damages

The damage is compounded by fires that occur due to downed wires and ruptured gas/fuel lines. Firefighters may experience a minimum of 1,600 ignitions that will burn approximately 1.13 square miles of the regions total area. Fires will displace approximately 10,220 people and burn about 767 (millions of dollars) of building value. Their task is made much more difficult because debris caused by landslides, damaged buildings, roads and power lines is blocking many of the roads and access points they need to reach the fires. In other cases normal traffic causes gridlock as people try to reunite with their families during the work day. Finally, in addition to the obstacles mentioned above, many of the water mains are ruptured or damaged so firefighters have to rely on alternate sources of water to fight the fires. -9-



#### ESF Synchronization – Planning Factors

Geographic Operations Summary of Shaking Intensity Total Population Directly Impacted 17,022,212

12.750 deaths

- 177,858 injuries
- 1,046,534 buildings significantly damaged
- 1600 ignitions requiring a fire engine, 1,200 exceed capability of first engine
- $\geq$ 45,000 rescues
- 225,000 individuals require mass care and shelter, (40% increase, which can account for aftershocks, fire etc.) to include those with access, functional and other special support needs of 25% (56,250). This also includes -7% (15,750+) toddlers and infants.
- $\triangleright$ Large portions of the critical infrastructure (trans., comm.'s, power, water/ wastewater/fuels/pipeline likely to be damaged or destroyed.
- $\geq$ 2.5 million individuals shelter-in-place and need basic resource support (e.g., food and water)
- 1,000,000 displaced pets/269,500 needing shelter  $\geq$
- Target evacuation population 1,005,000 based on  $\geq$ assessment of risk.
- $\geq$ 80% of population will likely self-evacuate. Remaining 20% (up to 200,000) will require assistance.
- $\geq$ Approximately 25% of major airports may not be immediately available for operations.
- $\geq$ Fire/Rescue/Airlift operations will be impacted by weather smoke and hazardous materials conditions.
- EQ will have immediate impact rail operations for the  $\geq$ first 48hrs.
- $\geq$ Day Vs Night Response (add 4-8hrs)
- $\triangleright$ Regional ESF impacts to response/support efforts due to lose of staffing
- Local/State/Federal response and support agencies  $\geq$ will implement Continuity Plans will impacted area  $\geq$ 
  - \$232 billion damages

### **Operational Phase 2a - b**

#### Assumptions based on planning factors:

- Catastrophic S2 7.8M EQ Down the Southern San Andres Fault Rupture Zone .
- Availability of response personnel may be significantly compromised
- Gov. Proclamation immediate/POTUS Declaration follows
- Many people will be unaccounted for
- Large numbers of fatalities expected
- Critical lifeline restoration hampered by debris Assumptions change to facts each operational period

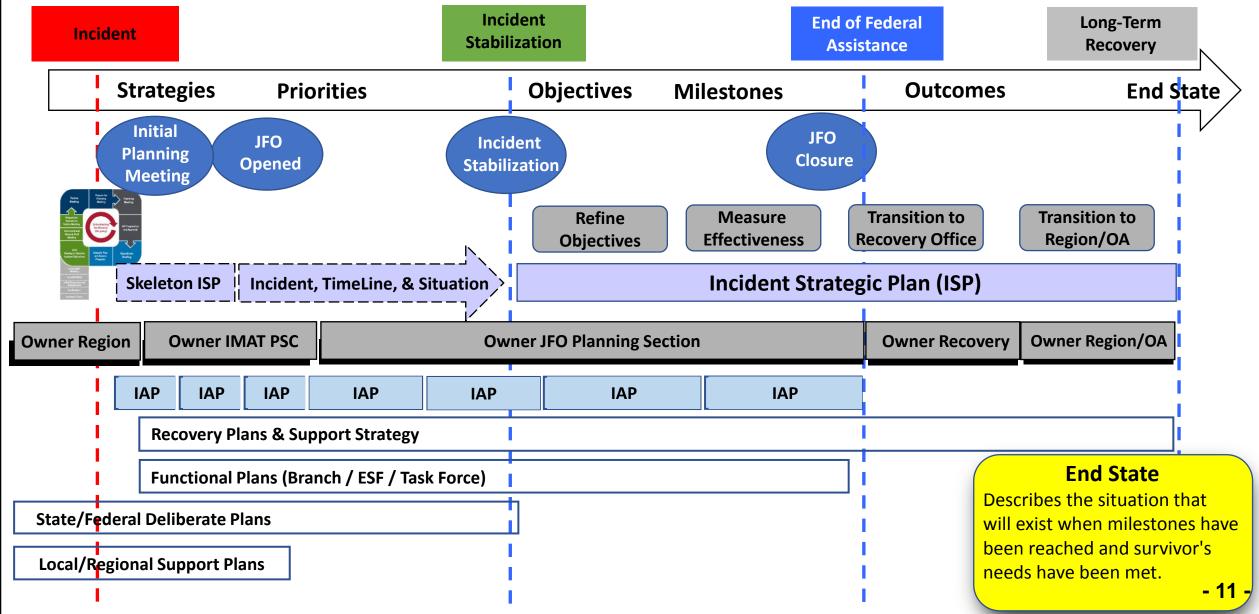
### Tier One Capabilities(E + 24):

- Initiate evacuation/survivor movement opns
- Move populations out of the affected areas
- Move emergency services/critical lifeline restoration workers into the affected areas
- Establish ingress and egress routes
- Use contra flow plans as necessary
- Provide security and logistics necessary for evacuation, patient movement, and mass care
- Establish emergency supply routes and acquire and/or deliver resources
- Provide information collection plan EEIs flow in a timely and synchronized effort

#### Gaps:

- EMS survivor mvt (triage, transport, care)
- Sufficient high density shelters with qualified staff/includes small/large animals
- Mobile Pharmacy capabilities
- Collaborated response/utility spt\_bases\_
- Logistical supply chain commodity mvt.

### Provide an Operational and Functional Planning Process Planning Relationships Across the Disaster Life Cycle



## **Senior Leader Support Concept for Approval**

### **Event Priorities**

- Operational communications with regions, operational areas, and support organizations that are activated.
- Maintain situational awareness of threats, impacts, operational area needs.
- Accountability and safety of all emergency management and field staff.
- Level MAC Groups/TF decision making process to prioritize, allocate and critical scare resources.

### **Management Objectives**

- Prepare for changing conditions in a dynamic situation and be prepared to adjust plans.
- Keep cost commensurate with values at risk.
- Provide public with key information, maintain positive public relations.

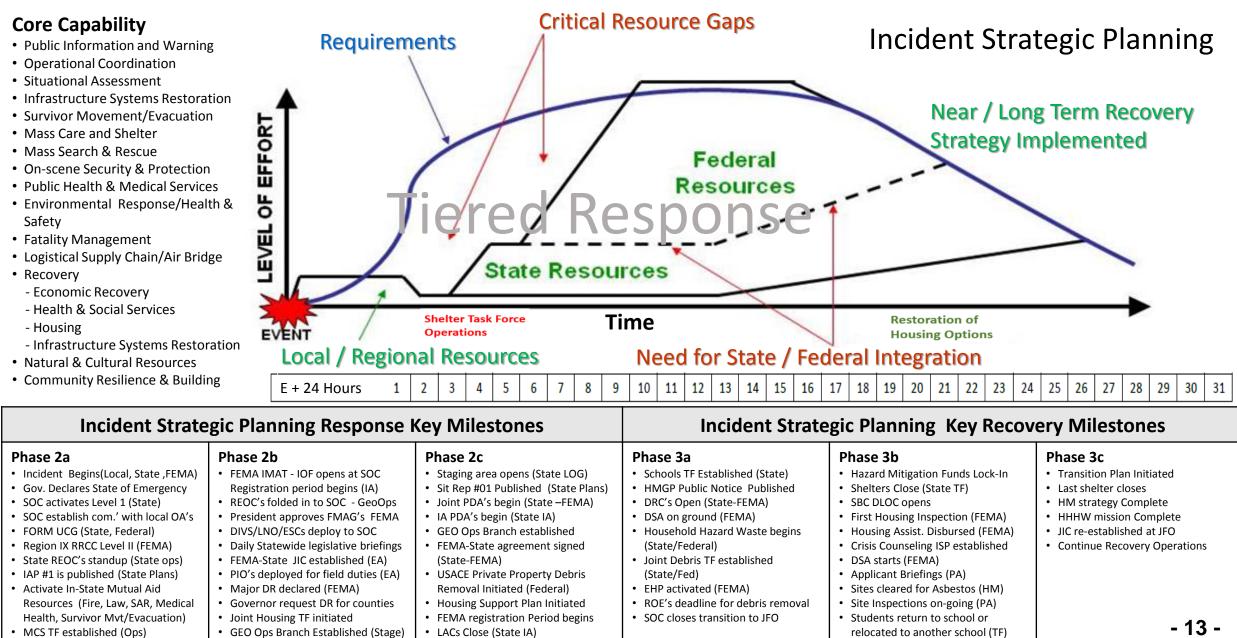
socal catastrophic EQ Flan control objectives by operational Flase				
Phase 2a Activation and Immediate Response	Phase 2b State/Federal Resources are Deployed	Phase 2c Sustained Response	Phase 3 Long Term Recovery	
<ul> <li>Firefight Response Protect Life, Property, and the Environment in the Impacted Areas</li> <li>Support Mass Search and Rescue Operations</li> <li>Support Evacuation and Survivor Movement</li> <li>Support/Sustain Shelter Operations/AFN Unmet Needs</li> <li>Assess/Identify critical infrastructure impacts and restoration</li> <li>Provide Joint Coordinated Information &amp; Messaging</li> <li>Assess Medical Facilities and Schools</li> <li>Support Debris Clearance and Removal Operations to gain Access for Critical Resources/Commodity Distribution</li> </ul>	<ul> <li>Firefight Response - Protection of Life and Property, and the Environment in the Impacted Areas</li> <li>Support/Sustain Mass Search and Rescue Operations</li> <li>Sustain Shelters and Support Repopulation Operations</li> <li>Restoration of Critical Lifelines/Support Facilities and Conveyance Systems</li> <li>Establish/Sustain Supply Chain Commodity Distribution</li> <li>Establish/Sustain Debris Management Operations and Watershed Mitigation</li> <li>Support Housing and School Unmet Needs/Solutions</li> <li>Provide Joint Coordinated Public Information</li> <li>Recovery Strategy Buildout</li> </ul>	<ul> <li>Protect Life, Property, and the Environment in the Impacted Areas</li> <li>Restoration/Repair of Critical Lifelines/Support Facilities</li> <li>Implement Transitional Sheltering Assistance and Short/Long-Term Housing and Schools Solutions</li> <li>Support/Sustain Debris Management Operations and Watershed Mitigation</li> <li>Provide Joint Coordinated Public Information</li> <li>Implement Short/Mid-Term Recovery Strategy</li> </ul>	<ul> <li>Protect Life, Property, and the Environment in the Impacted Areas</li> <li>Implement Transitional Sheltering Assistance and Short/Long-Term</li> <li>Support Housing and School Solutions</li> <li>Support Temporary Facilities/Repair of Critical Infrastructure Facilities</li> <li>Support/Sustain Debris Removal Operations and Watershed Mitigation</li> <li>Coordinate Joint Public Information</li> <li>Implement Long-Term Recovery Strategy</li> </ul>	

### SoCal Catastrophic EQ Plan Control Objectives by Operational Phase

## **Operational Timeline and Operational Arc**

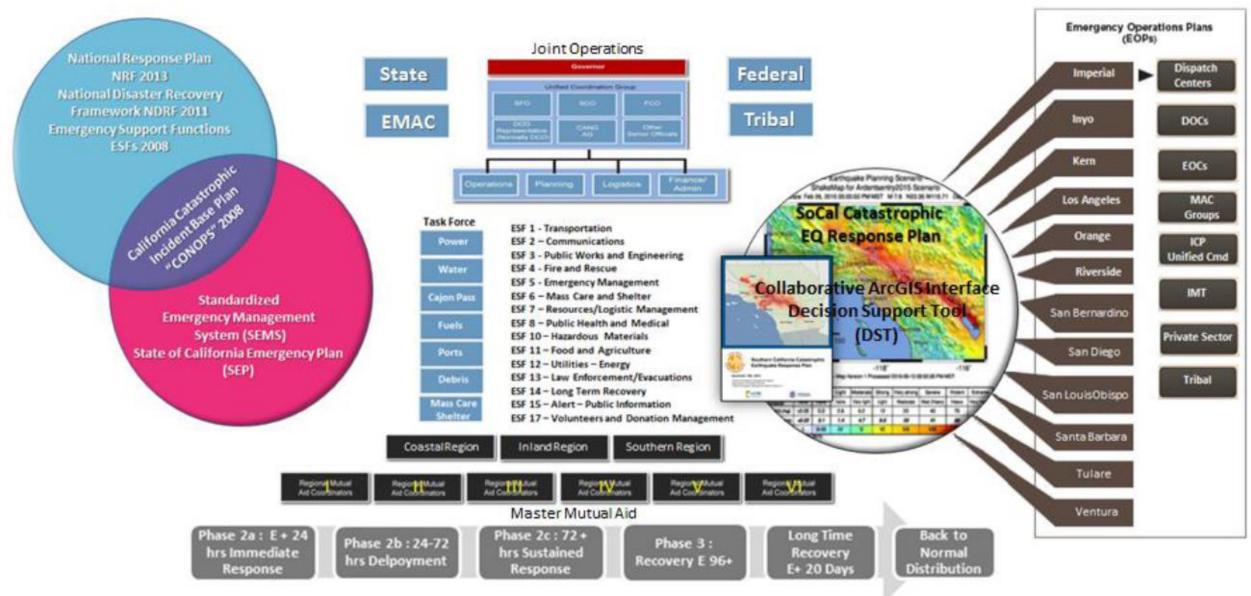
Field JIC opens in County (EM)

LACs Open (State IA)



Housing Inspections Complete

### **Operational Coordination Complexity**



# SoCal Catastrophic EQ Plan

Plan

Train

· Equip

Exercise

· Evaluate

Organize

### **Concept of Operation Operational Phases**

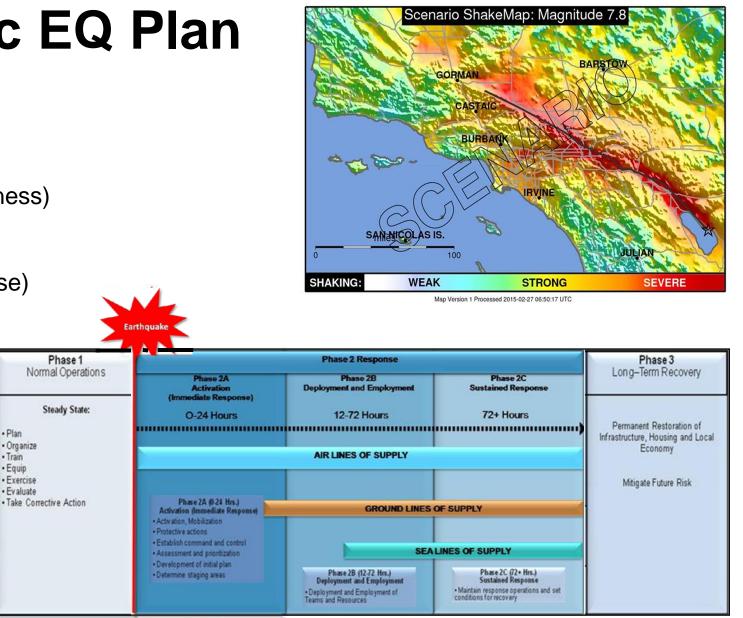
**Phase I:** Pre-Incident (Readiness/Preparedness)

### Phase 2: Response

- a. Activation (Immediate Response)
- b. Deployment and Employment
- c. Sustained Response

### **Phase 3:** Recovery

From Event (E+0 hour) through Recovery our focus looks at response, survivor movement/ evacuation, SAR/USAR, mass care and shelter, patient movement, public heath and medical through short and long term recovery operations (returning back to normal).



#### **Concept of Operations**

**End State:** Communications, public messaging, mass search and rescue (SAR), firefighting, medical care, evacuation, survivor movement, and mass care and shelter are prioritized and carried out by local responders in each Operational Area (OA). Support concept operations focus on areas of need to areas of capability. Staging Areas (SAs) are determined at the time of the incident. Resources are forward deployed by the state and federal governments in support of multimodal operations. All resource facilities established in close proximity to impacted communities to maximize the logistical support chain. Air Coordination Group (ACG) coordinates all air operations. Operational Support Concept are established for Branches/Divisions, identifying; a) operational support structure, b) functional support structure, and c) geographic operations structure. SOC/IOF is staffed and pushes response and support resources to impacted communities.

#### Phase 2B: 12 hours to 7 days - Deployment and Employment

**End-state:** Branches /Divisions are staffed and operational in impacted area assigned, conducting support operations in concert with OAs and local jurisdictions. The transition from the "push" of resources and teams transitions to a more clearly defined "pull" of resources. The State continues to administer EMAC and mutual aid. The JFO becomes fully operational, debris clearance from major access and egress routes has taken place and staging areas are established. Task forces and the private sector are working to restore infrastructure. Mass care services,/support are taking place and local jurisdictions are working with state and federal counterparts to clearly define requirements.

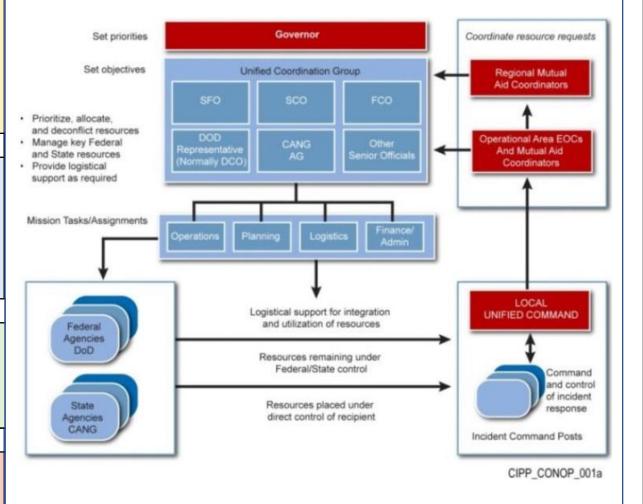
#### Phase 2C: 7 days + Sustained Response

**End State:** When response set conditions for near/long-term recovery. Sheltering is transitioned to temporary housing including rebuilt or repaired homes or other temporary housing. Critical lifelines restoration (power, water, wastewater, sanitation/waste, communications, transportation corridors, ports, rail and fuel operations are operating near full commercial capability while maintaining response operations and public messaging.

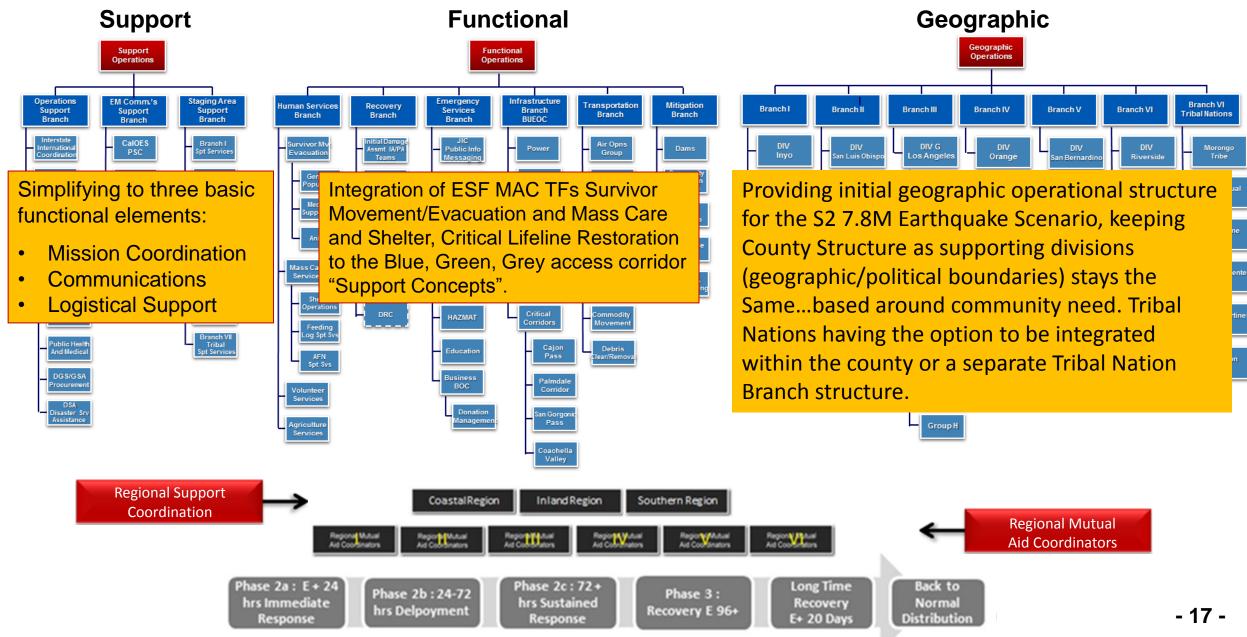
#### Phase 3: Long Term Recovery

**End-state:** Private sector, local, state, tribal and federal actions are required to restore services, continue government operations, and promote economic recovery following a catastrophic incident. All life-saving activities have been completed. Phase 3 ends when recovery activities have set the conditions for long-term community recovery. Temporary housing has transitioned to rebuilt homes or other permanent housing, schools are open, tourism is re-established, and critical facilities and infrastructure are self-sustaining through normal transactions.

#### **Joint Operational Support Structure**

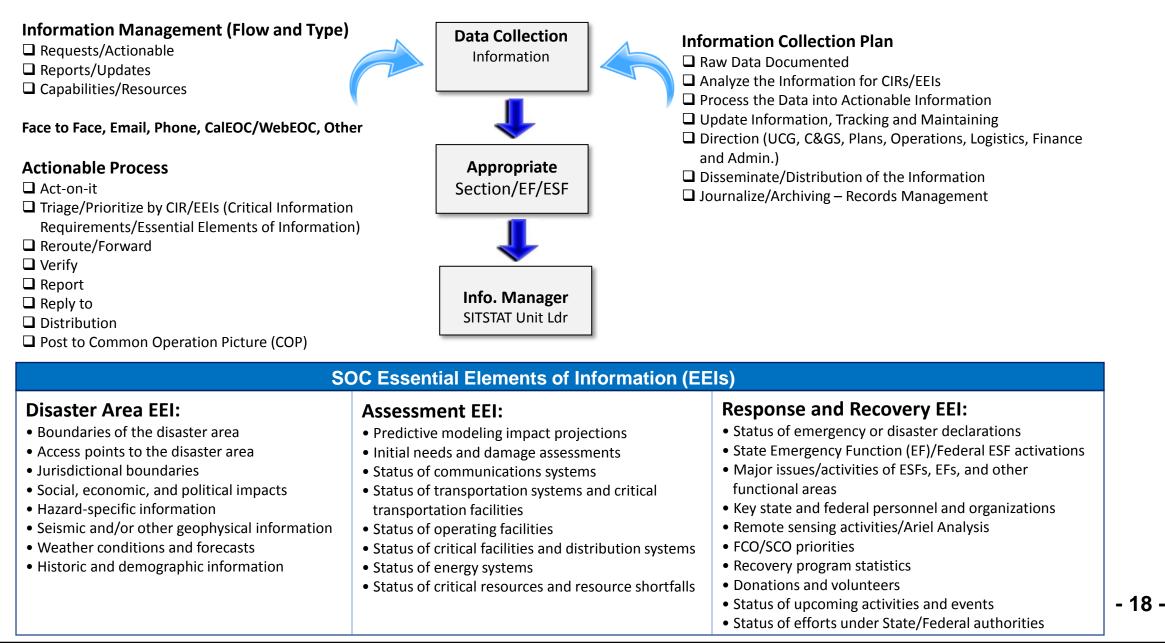


## Initial Operational Support Structure E – E+72



#### **Operational Coordination – Information Management Flow – Data Collection Process**

Evaluate, verify, prioritize, integrate into actionable intelligence that can be utilized and disseminated and displayed.



## **Operational Coordination – Information Collection Plan**

Implementing a synchronized Information Collection Plan (ICP) is a crucial step California's Multi-Agency Coordination System (MACS) process of collecting, analyzing, validating, prioritizing, allocating and resourcing critical needs throughout the impacted area. The ICP process of collecting Essential Elements of Information (EEIs )must be clearly understood by all participating in response, support, and recovery operations.

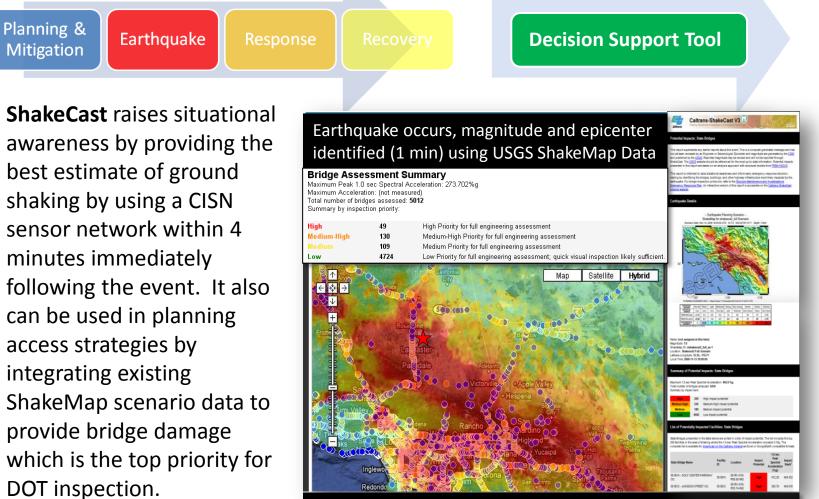
Essential Elements of Information	Specific Information Required	Proposed Methodology/Sources	Responsible Elements	Suspense
Status of Transportation Systems, Networks, Corridors and Capabilities	<ul> <li>Status of major/primary roads</li> <li>Status of evacuation routes</li> <li>Status of public transit systems</li> <li>Road closures</li> <li>Status of key critical infrastructure corridors and transportation hubs</li> <li>Status on Airports/Runways/LZs</li> <li>Status of critical bridges</li> <li>Status of railways corridors/hubs/bridges/tunnels</li> <li>Status of ports and waterways</li> <li>Status of transportation emergency fuels</li> <li>Accessibility into impacted areas?(Access</li> </ul>	<ul> <li>Impacted Operational Areas</li> <li>State Liaison/ERT-A/FCO Reports</li> <li>Caltrans Reports</li> <li>LEEOC Reports</li> <li>Emergency Support Function #1/DOT</li> <li>Assessment Team Reports</li> <li>Media/Community Relations</li> <li>USCG Resumption Reports</li> <li>U.S. Army Corps of Engineers</li> <li>CUEA-BUEOC/BEOC Reports</li> <li>California Truckers Association</li> <li>Private Sector/Bailroads</li> </ul>	ESF-1 Lead Agency CALTRANS Coordinating CHP CAL OES LE CUEA CEC ACG	ICS 209 0600 First report: 0900 Updates: NLT 1500 as required or report tim publish in IAP
	ESF's have identified	l and incorporate	d thei	r EEI's
a	nd data sets within	the Decision Sup	port T	ool

Major Issues/Concerns for the next 24-72 hours



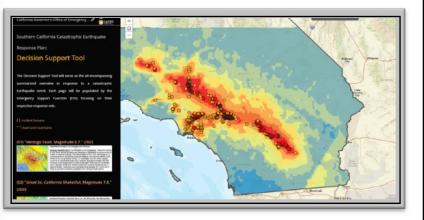
## Situational Assessment (S2 – 7.8M San Andreas Fault Rupture Zone)

### Assessing Damage and Planning Access Corridors Strategy Starting Point – Transportation Analysis Caltrans ShakeCast



ShakeCast identifies the bridges that are *more likely* to have damage due to the critical combination of damaging shaking levels and greater vulnerability. (10 min)

**Decision Support Tool (DST)** is a ArcGIS On-Line Mapping & Analytics Platform that provides contextual tools for mapping and advance planning. Initial concept was based on enhancing the analysis process by creating a deeper critical functional understanding, allowing planners to quickly see where things are happening and how information is connected.



Each functional area share usable data sets based on UCERF 3 - SoCal Risk/Threat EQ Fault Rupture Zones, allowing you to quickly see where things are happening and how information is connected. - 20 -

#### http://arcg.is/2nNeuXM

## **Operational Coordination Way Forward**

Southern California Catastrophic Earthquake Planning Methodology / Playbook

Response

Shelter

ESF 7 Resources

and Medical

Safety

Response health &





















## Bridging the Gap



**Incident Support** They both start when the event occurs.

### Recovery























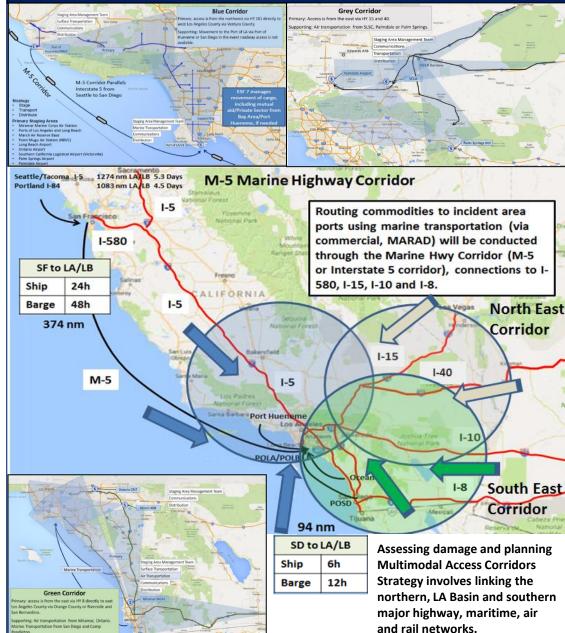




### **Defining the Structure in a Phased Approach**

#### Base Operational Planning –Surface Access Corridor Concept

#### Geographic Operations Access Corridors (Blue, Grey and Green)



#### ESF 1 – Operational Phase 2a – b Support Concept

#### **Priorities:**

- Clear lifeline and priority routes
- Clear access roads in and out of priority rail, air and sea ports

#### **Objectives:**

- Conduct state highway damage assessments
- Conduct bridge damage assessments
- Establish route recovery priorities
- Inspect and stabilize shore equipment and power for vessel loading and unloading

#### Assumptions Based on Planning:

•Transportation of first responders, commodities and other required resources into the Bay Area will be significantly affected by damage to transportation infrastructure, debris removal operations, inspections,

and closures for repairs.

•Surface transportation will be further limited by shortages of fuel, damage to fuel distribution and

delivery infrastructure

•Bridges will be closed for up to 72 hours

•Sea port use dependent on waterside access and power for shore equipment to load and unload ships Tier One Capabilities(E + 72):
Branch I - District 9 – Inyo, District 6 – Kern, Tulare
Branch II - District 5 - San Luis Obispo, Santa Barbara District 7 – Ventura
Branch III - District 7 – Los Angeles, Ventura
Branch IV - District 8 – San Bernardino, Riverside
Branch V - District 12 – Orange
Branch VI - District 11 – San Diego, Imperial District 8 – Riverside
Road clearance
Road closure and detours

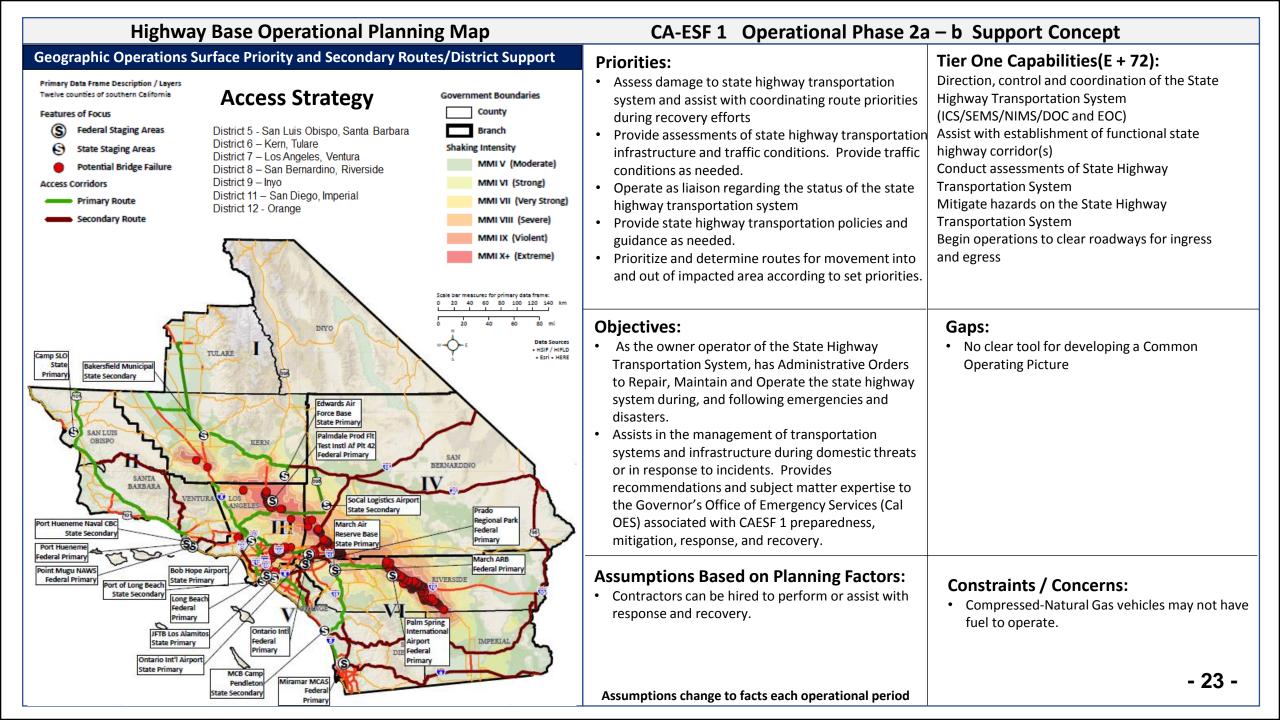
• Permanent repairs to infrastructure

#### Gaps:

• Need a COP for rail, air and sea ports that can communicate with surface transportation.

#### **Constraints / Concerns:**

- Local governments whose capabilities will be exceeded will request assistance from Caltrans.
- Availability of fuel and other resources
- Availability of staff



#### **Concept of Operations – Transportation (Surface Roads)**

Phase 2A: 0-12 Hours – Activation (Immediate Response)

**End-state:** Assess damage to state highway transportation system and infrastructure, protect the public, assist with route prioritization during response efforts, and support traffic condition reporting. Begin road clearance ingress and egress operations.

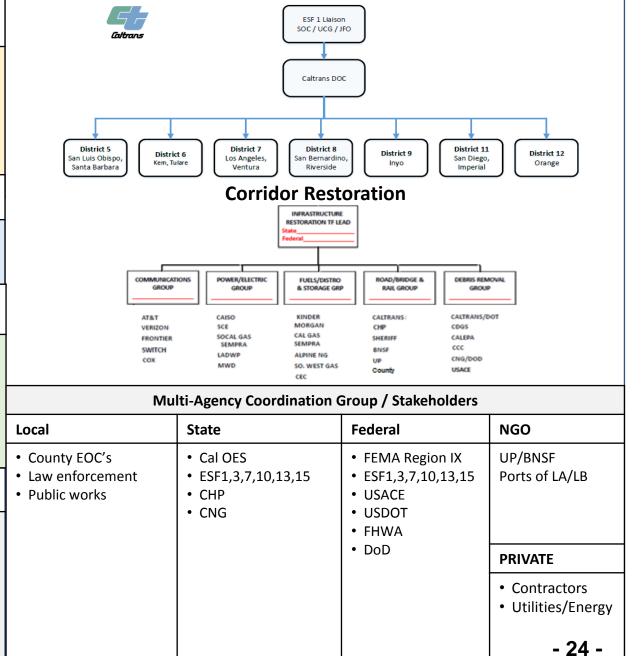
#### Phase 2B: 12 hours to 7 days - Deployment and Employment

**End-state:** Begin mitigation and restoration of state transportation infrastructure.

#### Phase 2C: 7 days + Sustained Response

**End-state:** Continue restoration of state transportation system while mitigating short-term hazards.

### **Operational Support Structure ESF 1- Surface Roads**



#### Phase 3: Long Term Recovery

**End-state:** Restore or replace damaged state transportation system facilities as soon as practicable.

Aviation Base Operational Planning Map (Air Bridge) CA-ESF 1 Operational Phase 2a – b Support Concept				
Geographic Operations Surface Priority and Secondary Routes/District Support	<ul> <li>Priorities:</li> <li>Establish air coordination with UCG</li> <li>Inspect airports and hospital heliports for capabilities</li> <li>Prioritize airport and heliport uses based on IAP priorities and objectives</li> <li>Establish inventory of available aviation programs</li> </ul>	<ul> <li>Tier One Capabilities(E + 72):</li> <li>Inspection of airports and hospital heliports</li> <li>Activation of full ACG</li> <li>FAA deploys emergency response team to ACG</li> </ul>		
	<ul> <li>Objectives:</li> <li>Establish airspace management plan with FAA</li> <li>Validate medical transport plans with ESF 8</li> <li>Establish ship to shore capabilities with DCE/DOD</li> </ul>	<ul> <li>Gaps:</li> <li>Have not rehearsed (TTX) the establishment of a full ACG ops center</li> </ul>		
Google Chul Carlsbad San Diego	<ul> <li>Assumptions Based on Planning Factors:</li> <li>Airports outside of impact area will be heavily used until interior airports are inspected</li> <li>Local government has planned uses for their airports that need to be synced with broader</li> </ul>			
Public Ose Airports diru nospital neirports	<ul> <li>airports that need to be synced with broader objectives.</li> <li>RIX DCE coordinates ship to shore movement of DOD air assets with ACG</li> <li>OES/Caltrans SAP team can assist with airport infrastructure inspections if tasked</li> <li>CERT, A-CERT and, pilot groups to assist airport management with multi-use airport support.</li> <li>Commercial service airports to be used for heavy aircraft, GA airports for all other flights</li> <li>Hobby UAS/drones will compromise airspace and air response</li> </ul>	<ul> <li>Constraints / Concerns:</li> <li>Will take FEMA logistics 5+ days to bring out and set up a full ACG ops center.</li> <li>Airports will be used for much more than aviation. Will need to coordinate site planning to maintain safe aircraft/airspace minimums alongside other uses.</li> <li>Lack of a formal aviation COP</li> <li>No formal interagency UAS/drone methodology. ACG and FAA will coordinate operations.</li> <li>25 - 25 -</li> </ul>		

#### **Concept of Operations – Transportation (Air)**

#### Phase 2A: 0-12 Hours – Activation (Immediate Response)

**End-state:** Activation of ACG, capability assessment of impacted area airports and hospital heliports against FAA's 5010 Airport Master Record, assessment of responding aviation programs, coordinated mission tasking/assignments and airspace control plans.

#### Phase 2B: 12 hours to 7 days - Deployment and Employment

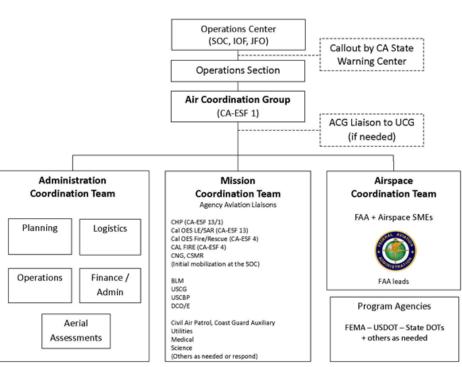
**End-state:** Coordinated tasking of aviation partners, coordinated airspace management, and efficient use of airports and hospital heliports based on capabilities.

#### Phase 2C: 7 days + Sustained Response

**End-state:** Continue coordination of aviation mission tasking, airspace management, efficient use of airports and heliports. Repairs to airports and heliports, along with their ingress and egress routes, continues.

**Phase 3: Long Term Recovery** 

End-state: Restoration of public use airports and heliports to FAA standards.



**Operational Support Structure ESF 1- Air** 

Organization for a 40-125 person ACG under full activation

	Multi-Agency Coordination Group / Stakeholders				
eir	Local	State	Federal	NGO	
	<ul> <li>County EOC's</li> <li>Local Airports/Fields</li> <li>Local Landing Zones</li> </ul>	<ul> <li>Cal OES ACG</li> <li>Cal OES (Fire/Rescue &amp; Law branch)</li> </ul>	<ul> <li>FEMA Region IX</li> <li>FAA</li> <li>USDOT</li> </ul>	Utility companies	
	<ul><li>Local fire &amp; law</li><li>Hospital heliports</li></ul>	<ul> <li>CAL FIRE Air Ops</li> <li>CHP Air Ops</li> </ul>	• DOD • USCG	PRIVATE	
		<ul> <li>CA Military Dept</li> <li>Caltrans OEMIP</li> </ul>	<ul> <li>USCBP</li> <li>USFS</li> <li>BLM</li> <li>NASA</li> <li>USGS</li> </ul>	Air ambulance Cal Pilots Civil Air Patrol CG Aux – Air Assn of CA airports	
				- 26 -	

ESF12 Utilities / Energy Concept of Operations	Operational Su	pport Structure	<b>Critical Lifelin</b>	e Restoration
Phase 2A: 0-12 Hours – Activation (Immediate Response)		Infrastructure Resto MAC Group / TI Coordinators	ration F	
End-state: Utility company repair teams will assess and start initial reporting of critical utilities status to other utilities, local EOC's and CUEA. Provide personnel, equipment and repair teams to task forces as they are activated	Comm.'s Group         Power/Electric Group           AT&T         CAISO           Verizon         SoCal Edison           Frontier         PG&E           Switch         SoCal Gas / Sempra           Cox         LADWP           MWD         ID	Fuels Distro/Storage Group         Road/Rail Group         Por           Pipeline/Oil/NG Industry         Caltrans CHP         Pool Colladustry         Pool Colladustry           Cald Gas / Sempra Alpine Natural Gas         Local LE         US Alutrant         US Alutrant	tLB         Cal FIRE         FIRE	Debris         Water & Wastewater           Group         Wastewater           CalEPA         MWD           Calrans         LADWP           CalFPA         NUP           CalFPA         ID           CARB         Palo Verde Irrigation           CNG         District
Phase 2B: 12 hours to 7 days - Deployment and Employment	10	BNSF Ca CS Po So	ILOES FWS FIRE [ SLC USFS CNG	DGS Bard Water District CCC CSWCB CNG CDWR CGS CDEW
End-state: Utility company response and repair teams continue to assess and repair critical utilities, including gas, power grid, communications networks, water/wastewater systems and report status to local, state and federal government.		L Fi P U U C L U U	ADWP/SCE BNSF/UP HazMat EMA Private Sector [ oD/DCO	DOT USACE GSA USCG DO/DCO Public & Private USACE Private Sector
Phase 2C: 7 days + Sustained Response				
End-state: Utility company repair teams continue to assess, prioritize and repair critical	Multi-Agency Coordination Group / Stakeholders			
utilities. Including power grid, communications, gas, water/wastewater systems and report	Local	State	Federal	NGO
status to local, state and federal bodies. Phase 3: Long Term Recovery	<ul><li>County OES's</li><li>Local ARC</li><li>County Health</li></ul>	<ul> <li>Cal OES</li> <li>CDSS (CA-ESF 6)</li> <li>CDHS/CDPH/EMSA (CA-ESF 8)</li> <li>CDFA (CA-ESF 11)</li> <li>National Guard</li> <li>DGS (CA-ESF 7)</li> <li>Dept. Education</li> <li>Regional VOADs</li> <li>Gov's Tribal Nations Coord.</li> </ul>	<ul> <li>FEMA Region IX</li> <li>FEMA (ESF 6)</li> <li>FEMA (ESF 7)</li> <li>USACE (ESF 3)</li> <li>HHS (ESF 8)</li> <li>USDA (ESF 11)</li> <li>FEMA (ESF 2)</li> </ul>	<ul> <li>Regional/National ARC</li> <li>Salvation Army</li> </ul>
	<ul><li>Departments</li><li>Social Services</li></ul>			• Faith Based
End-state: CUEA will continue to work with all critical utilities as they transition to their	<ul> <li>Veterinary Svs</li> <li>Local Transit</li> </ul>			PRIVATE
respective corporate recovery plans, continue to communicate requirements.	<ul> <li>Local Public Works</li> <li>Co. School Districts</li> <li>Local VOADs</li> <li>Local Tribal Nations</li> </ul>			<ul><li> Hotel Associations</li><li> Donations</li></ul>
		Cal Trans     Cal Fire		- 27 -

## **Upcoming Events Schedule:**

27 Jun – GeoOpns (Operational Coordination/Branch/Div. TF's) Ben Clark Public Safety Center, Riverside 28 Jun – CUEA Annual Conference SCE Conference Center – Irwindale

25 Jul – Tribal Workshop (Operational Support Annex) Pala, Fire Training Room/Facilities

26 Jul – SoCal MARAC Meeting – Buena Park Community Center Ballroom

01 Aug - CalOES/FEMA Executive Brief (Cal OES HQs) Conflict with FEMA RIX RISC Meeting

15 Aug – SLSC Information Analysis Briefing Mount San Antonio College, Walnut

30 Aug - LA/LB Fleet Week

12 Sep – GeoOpns (Surv. Mvt/MCS Strategy) COA Workshop Ventura Co. Board of Sup. Rm 800

10 Oct – GeoOpns COA (Logistics, Ground/Rail/Maritime/Air Bridge – Access Strategy) Workshop Norman P. Murray Com.Ctr, Mission Viejo

11 Oct - San Diego Fleet Week (coordinating Senior Executive MAC Group TTX Breakout add-on)

25 Oct – SoCal MARAC Meeting – TBD

28 Nov - GeoOpns (Recovery Strategy) COA Workshop TBD

16 Jan – SLSC Course of Action (COA Briefing Overview - TBD)

### 27 Mar 2019 – SLSC Discussion Based TTX (TBD)

May – SLSC Meeting – Publish SoCal Catastrophic EQ Plan (TBD)

Jun 2019 – 2024 SCCEP Socialization

## **Training Gaps / Consequences - Readiness**

- High Density Shelter Manager/Credentialing (for Catastrophic Response)
  - Homeless Population/Integration and programs
- Type III Logistics Large Scale Staging Area Manager/Credentialing (for Catastrophic Response)
- Linkage/Synchronization between Evacuation, Survivor Movement, Mass Care and Shelter unity of effort.
- EOC Response to Recovery Transition Training
- EOC Catastrophic Training (looking at joint Geographic Operations Integration Priorities, Objectives, and Scare Resource Allocation)
- Port of LA/LB Executive MAC Group Decision Making Process
- Implementing State Contracts by Trained OA Procurement Officers/Logistics Leads (DGS Tasking)
- Logistics Public and Private Sector Integration at all Levels (Workshops OA)





## Collaborative Planning Effort 2018 CUEA Annual Conference Informational Update Briefing



Patrick T. Hammond Sr. California Governor's Office of Emergency Services Disaster Planning, SCCERP Lead, SESC, MEP 916-845-8777 Office 916-508-6089 Cell Patrick.Hammond@caloes.ca.gov

# Questions





**Troy Miller** FEMA RIX Operations Planner 510-627-7109 Office 510-851-2854 Cell <u>Troy.Miller@fema.dhs.gov</u>