



Interoperability In California

California Statewide Communications Interoperability Plan

OES Regional Briefing

December 3, 2007



Interoperability In California

Purpose:

- *To brief regional leadership of the Office of Emergency Services on the 2008 California Statewide Communications Interoperability Plan (CalSCIP)*

Outcomes:

- *Shared understanding of the 2008 CalSCIP*
- *Clarity on California's statewide interoperability current state, future state and strategic initiatives*
- *Ability to explain & leverage the CalSCIP to statewide stakeholders*



Today's Agenda

- Welcome & Introductions
- Notional Understanding on CalSCIP Strategic Planning Process
- Current State
 - CalSCIP Graphical Storyboard
- *Future State Review*
 - CalSCIP Mission, Vision, Goals & Objectives
- *Case for Change & Strategy*
 - Initiatives, Tasks, Milestones & Performance Measures
- Closing



Notional Understanding on CalSCIP Strategic Planning Process & Representative Governance

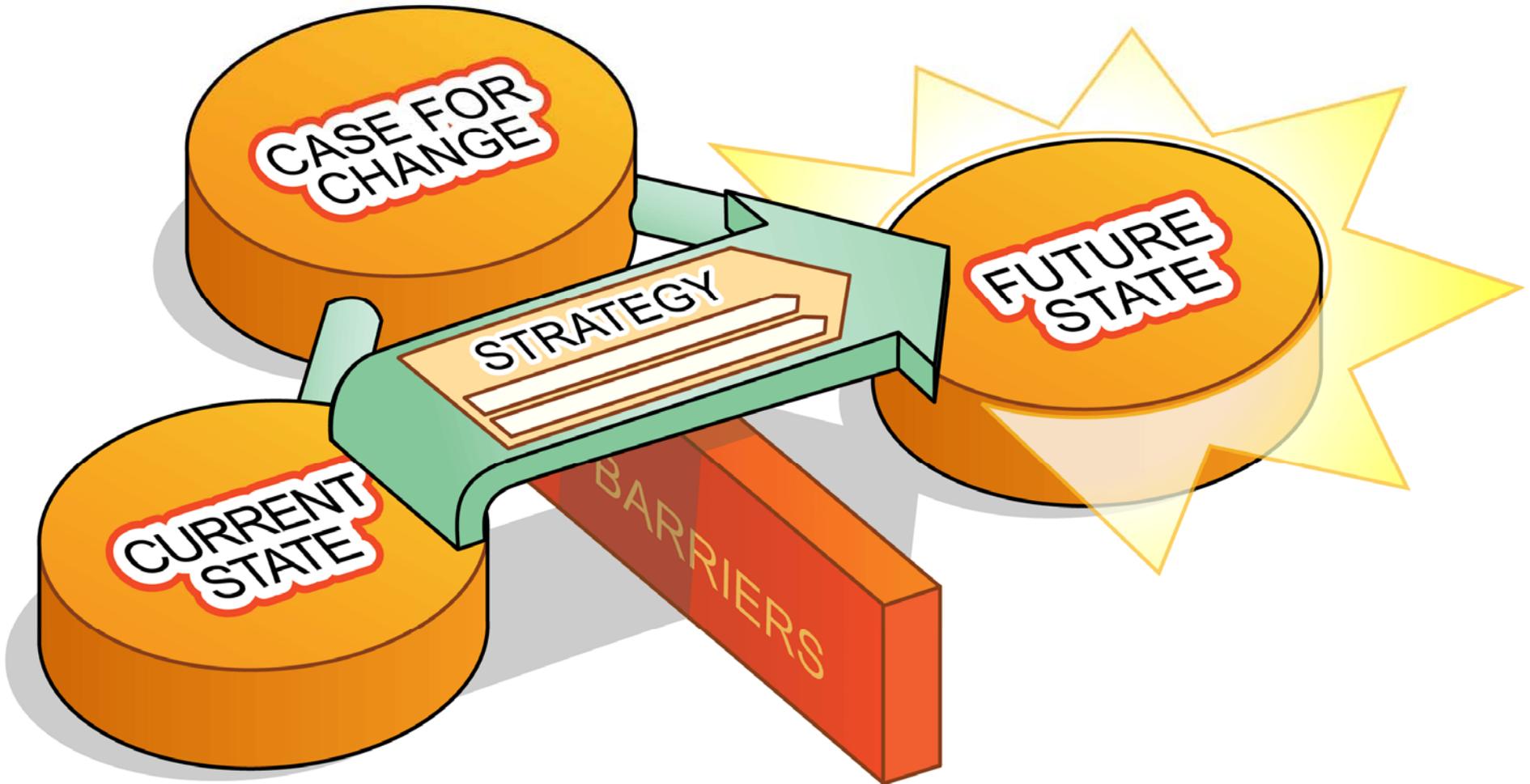
WORKING DEFINITION OF

CONSENSUS

- The process we used was explicit, rational & fair;
- I was treated well, my inputs were heard;
- And I can live with the outcomes.

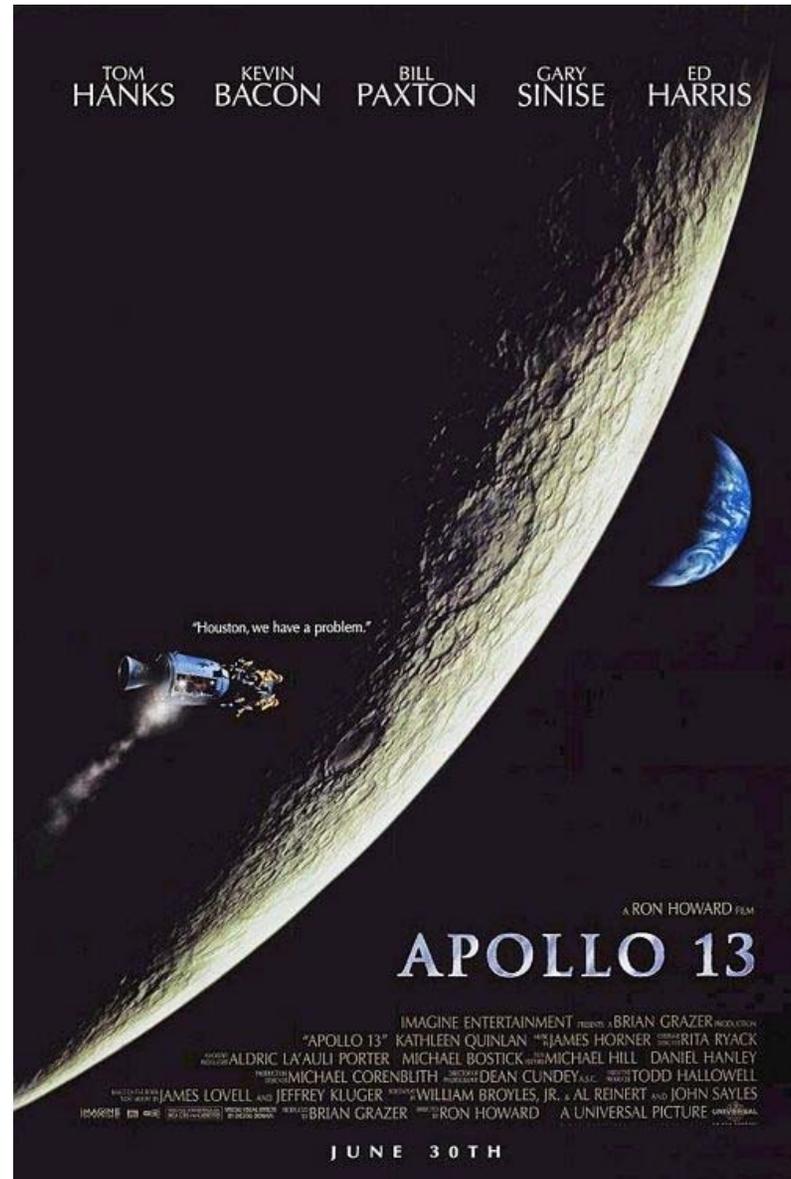


Strategy Gameboard

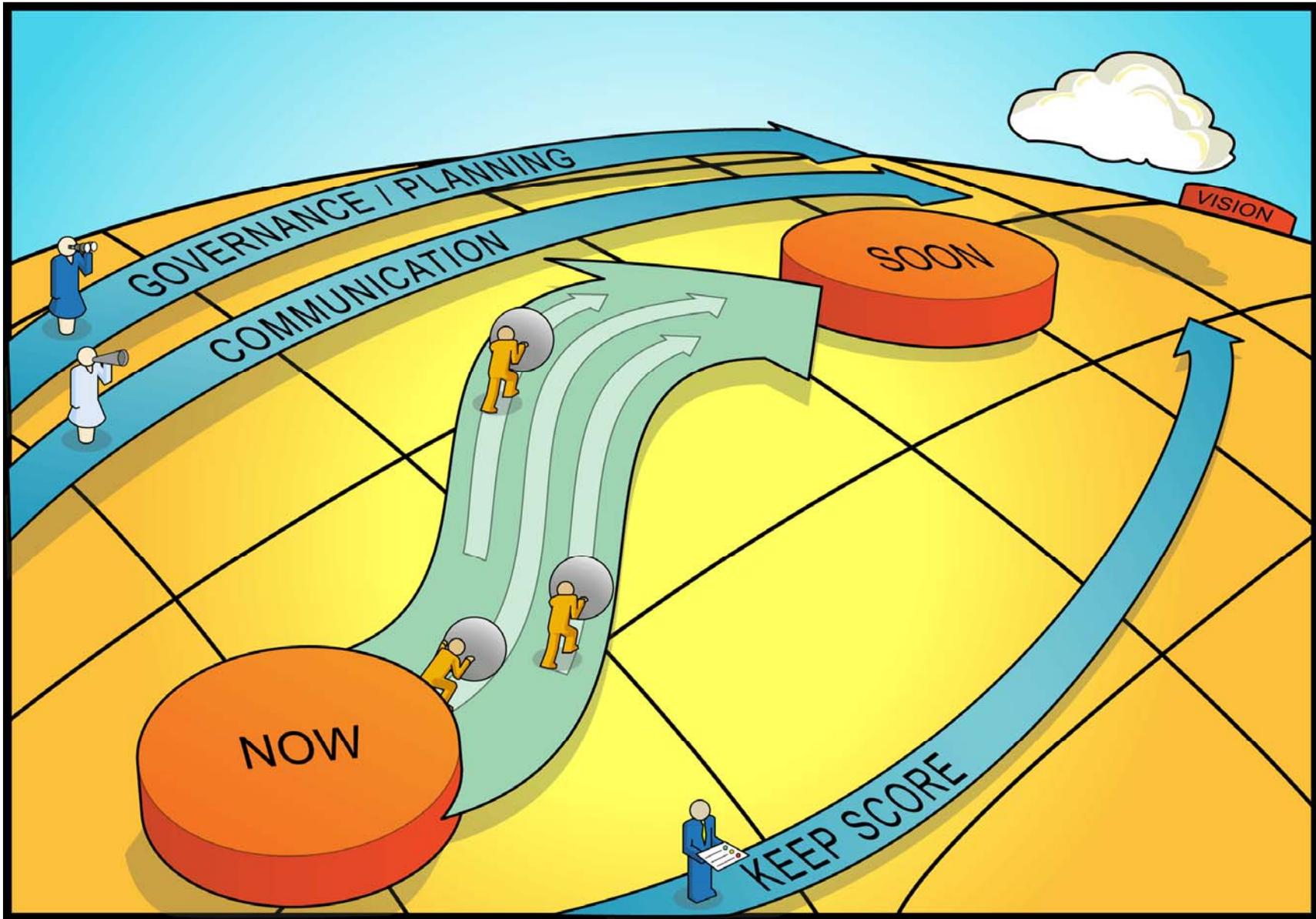




Strategic Planning Process

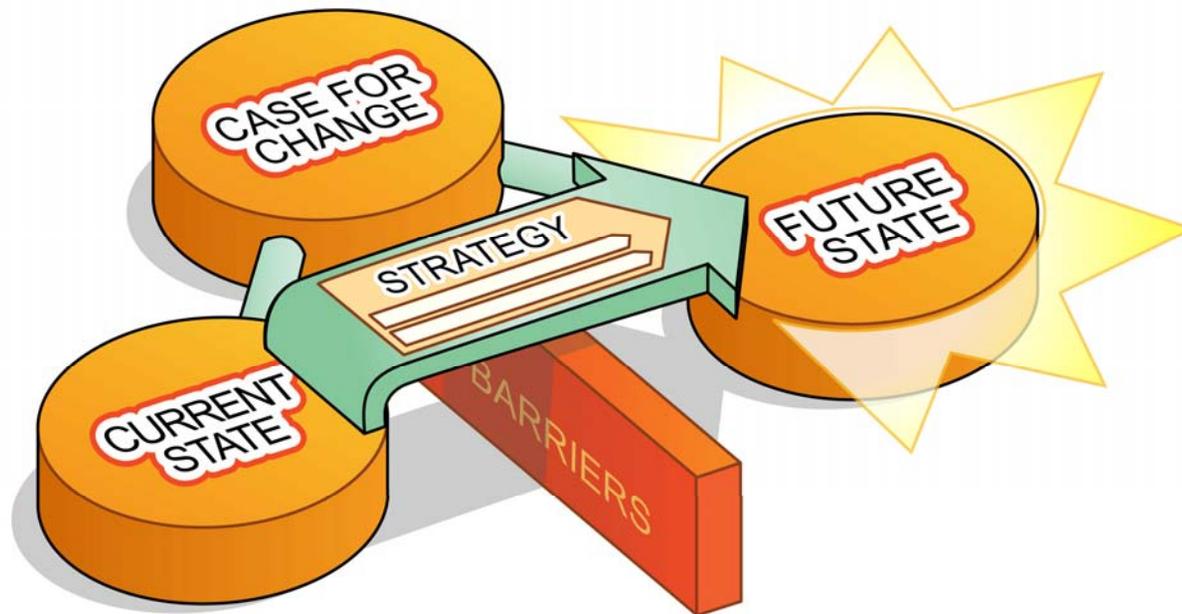


Idea-to-Benefit Cycle





Current State - Review CalSCIP Graphical Storyboard -





SAFECOM Criteria

- 3.1: Describe the method by which multi-jurisdictional, multi-disciplinary input was provided from all regions of the state. For an example of a methodology that ensures input from all regions, see the Statewide Communication Interoperability Plan, or SCIP, methodology developed by SAFECOM.
- 3.3: Define how the TICPs were incorporated into the statewide plan.

CalSCIP Project Plan

August

September

October

November

December

Data Gathering and Analysis



Review and incorporate:

- Tactical Interoperable Communications Plans (TICPs)
- Baseline Assessment Data
- California Mutual Aid Plans
- California Legislation and Government Codes

Evaluate and Incorporate existing Documentation

Outcomes:

- Inclusion of California's previously developed work products
- Understanding of CalSCIP content and identification of data gaps
- Alignment of the CalSCIP to SAFECOM's SCIP Criteria

Governance and Stakeholder Input



CalSIEC
Aug 16



Southern
Aug 22



Capital-Bay
Sept 10



CalSIEC/PSRSPC
Sept 24



Northern
Sept 27



Central
Oct 15



CalSIEC/PSRSPC
Nov 15

Outcomes:

- Shared alignment on CalSCIP Vision, Mission, Goals, Objectives, and Initiatives
- Statewide buy-in and consensus
- Increased cross-discipline, cross-jurisdictional collaboration across CA

CalSCIP Draft Development



Interim
Draft I
Aug 10



Interim
Draft II
Sept 11



Interim
Draft III
Sept 18



SME
Reviews



DHS
Draft
Sept 30



SME
Reviews



Final
Draft
Nov 9



Final
CalSCIP
Dec 3

Outcomes:

- Progressive development of and buy-in to the CalSCIP
- Consensus-based approval of each Interim Draft

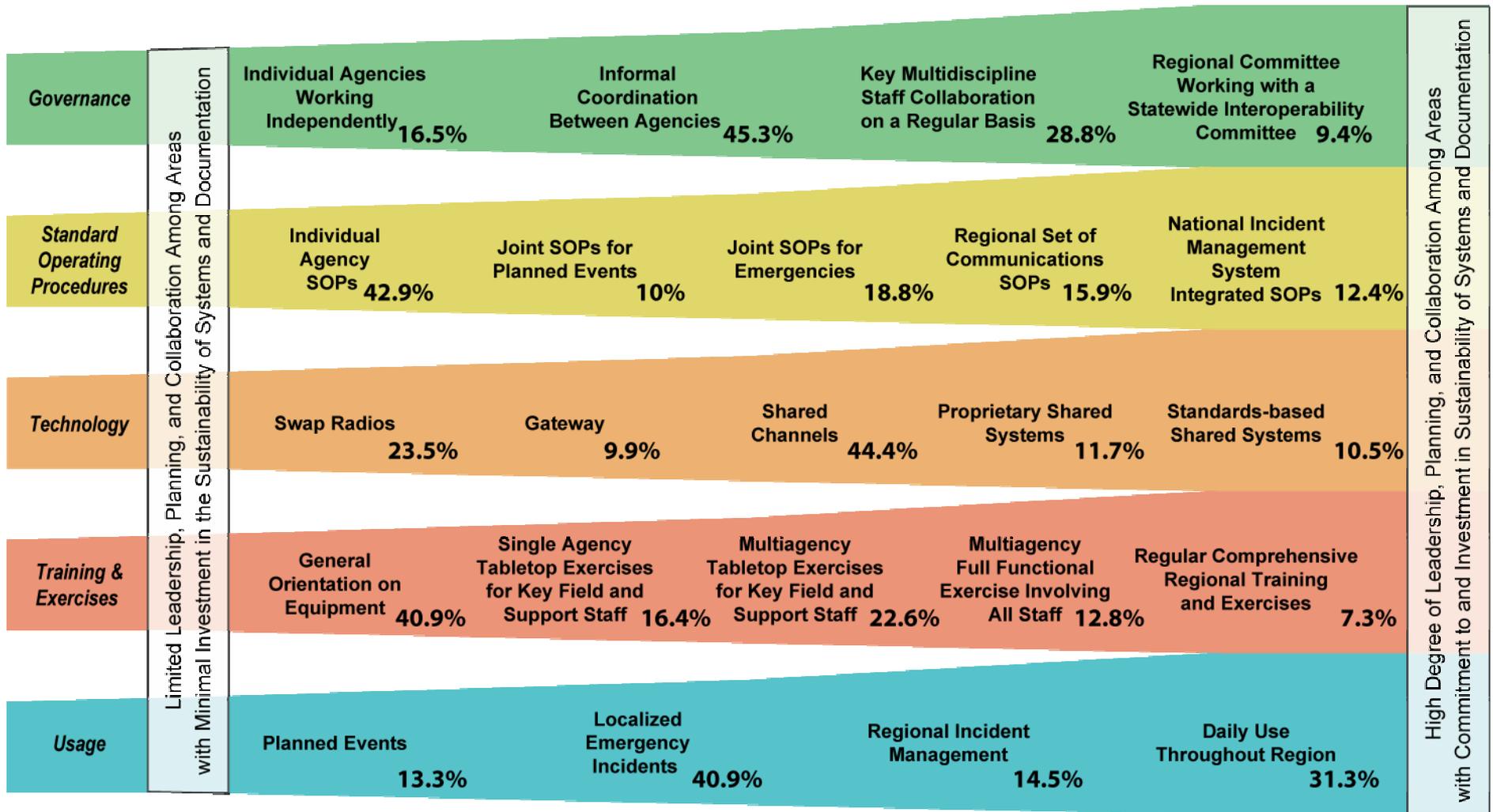


SAFECOM Criteria

- 5.1: Include a statewide capabilities assessment or a plan for one. States may use the Communications Asset Survey and Mapping (CASM) tool to conduct this assessment.

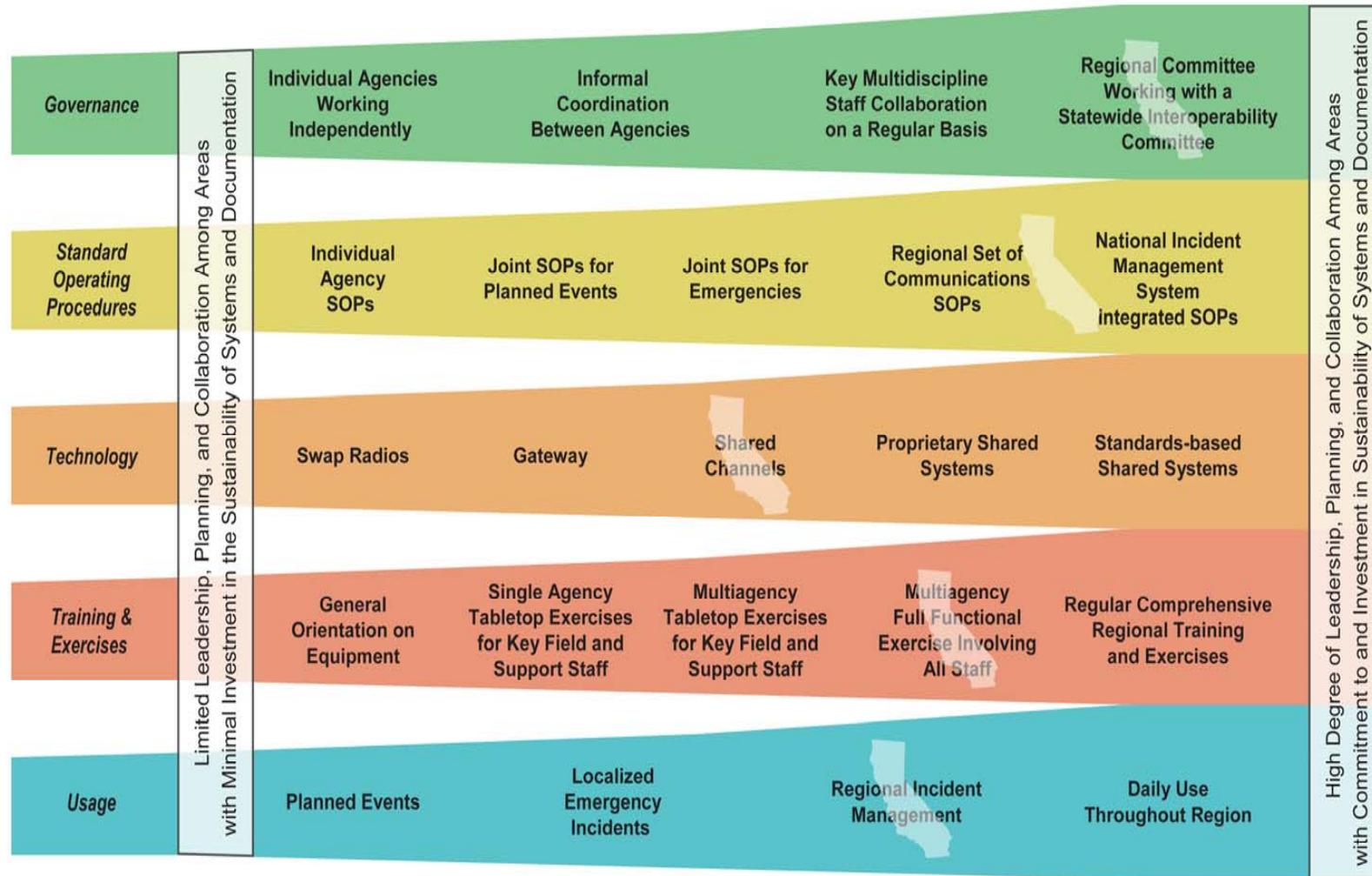


Interoperability Continuum California's Current State





Interoperability Continuum





**Homeland
Security**

Interoperability Continuum



Number of Respondents

					Totals
Capital Bay	3	18	15	2	38
Northern	3	9	6	0	18
Central	4	9	4	0	17
Southern	14	38	22	11	85
State Agencies	4	3	2	3	12

<i>Governance</i>	Individual Agencies Working Independently	Informal Coordination Between Agencies	Key Multidiscipline Staff Collaboration on a Regular Basis	Regional Committee Working with a Statewide Interoperability Committee	Totals
Statewide Response	28 16.5%	77 45.3%	49 28.8%	16 9.4%	170



**Homeland
Security**

Interoperability Continuum



Number of Respondents

	Number of Respondents					Totals
Capital Bay	13	4	9	8	3	37
Northern	11	1	4	0	3	19
Central	6	1	5	2	3	17
Southern	34	10	13	17	11	85
State Agencies	9	1	1	0	1	12

*Standard
Operating
Procedures*

Individual
Agency
SOPs

Joint SOPs for
Planned Events

Joint SOPs for
Emergencies

Regional Set of
Communications
SOPs

National Incident
Management
System
Integrated SOPs

Statewide Response

**73
42.9%**

**17
10%**

**32
18.8%**

**27
15.9%**

**21
12.4%**

170



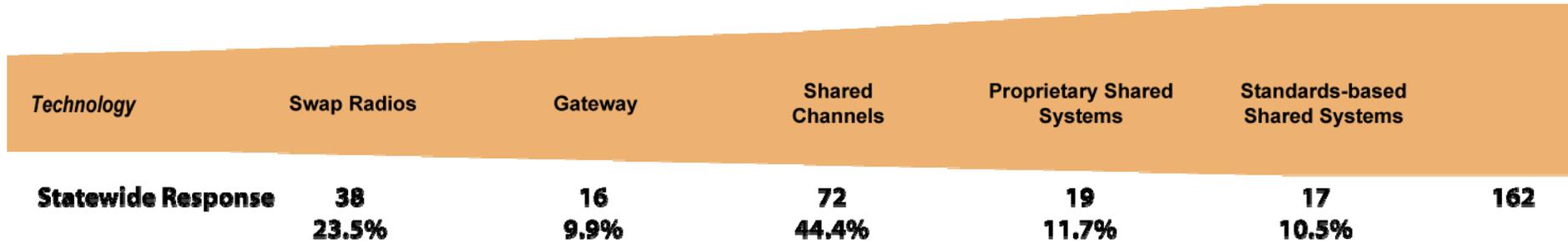
Homeland Security

Interoperability Continuum



Number of Respondents

	Number of Respondents					Totals
Capital Bay	5	4	19	7	4	39
Northern	3	4	9	0	2	18
Central	4	1	5	2	3	15
Southern	20	5	35	10	8	78
State Agencies	6	2	4	0	0	12





**Homeland
Security**

Interoperability Continuum



Number of Respondents

	Number of Respondents					Totals
Capital Bay	16	6	7	6	0	35
Northern	4	2	9	1	1	17
Central	4	3	4	6	0	17
Southern	36	15	16	7	10	84
State Agencies	7	1	1	1	1	11

<i>Training & Exercises</i>	General Orientation on Equipment	Single Agency Tabletop Exercises for Key Field and Support Staff	Multiagency Tabletop Exercises for Key Field and Support Staff	Multiagency Full Functional Exercise Involving All Staff	Regular Comprehensive Regional Training and Exercises	Totals
Statewide Response	67 40.9%	27 16.4%	37 22.6%	21 12.8%	12 7.3%	164



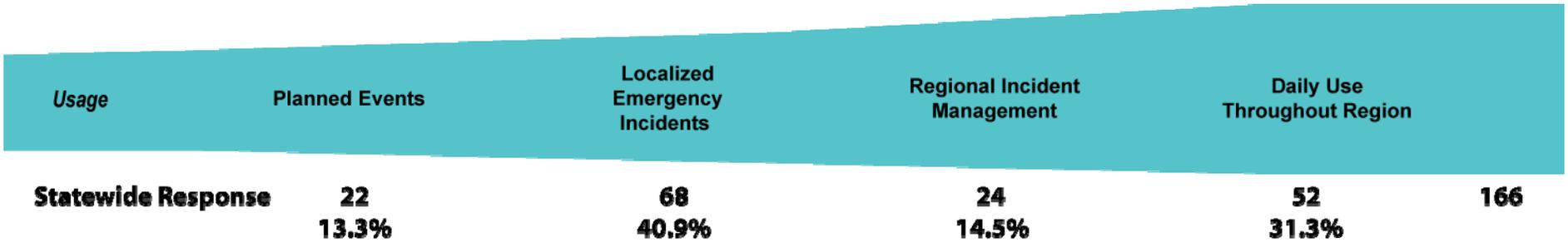
**Homeland
Security**

Interoperability Continuum



Number of Respondents

					Totals
Capital Bay	3	15	8	14	40
Northern	2	10	0	4	16
Central	1	6	2	5	14
Southern	11	34	12	28	85
State Agencies	5	3	2	1	11

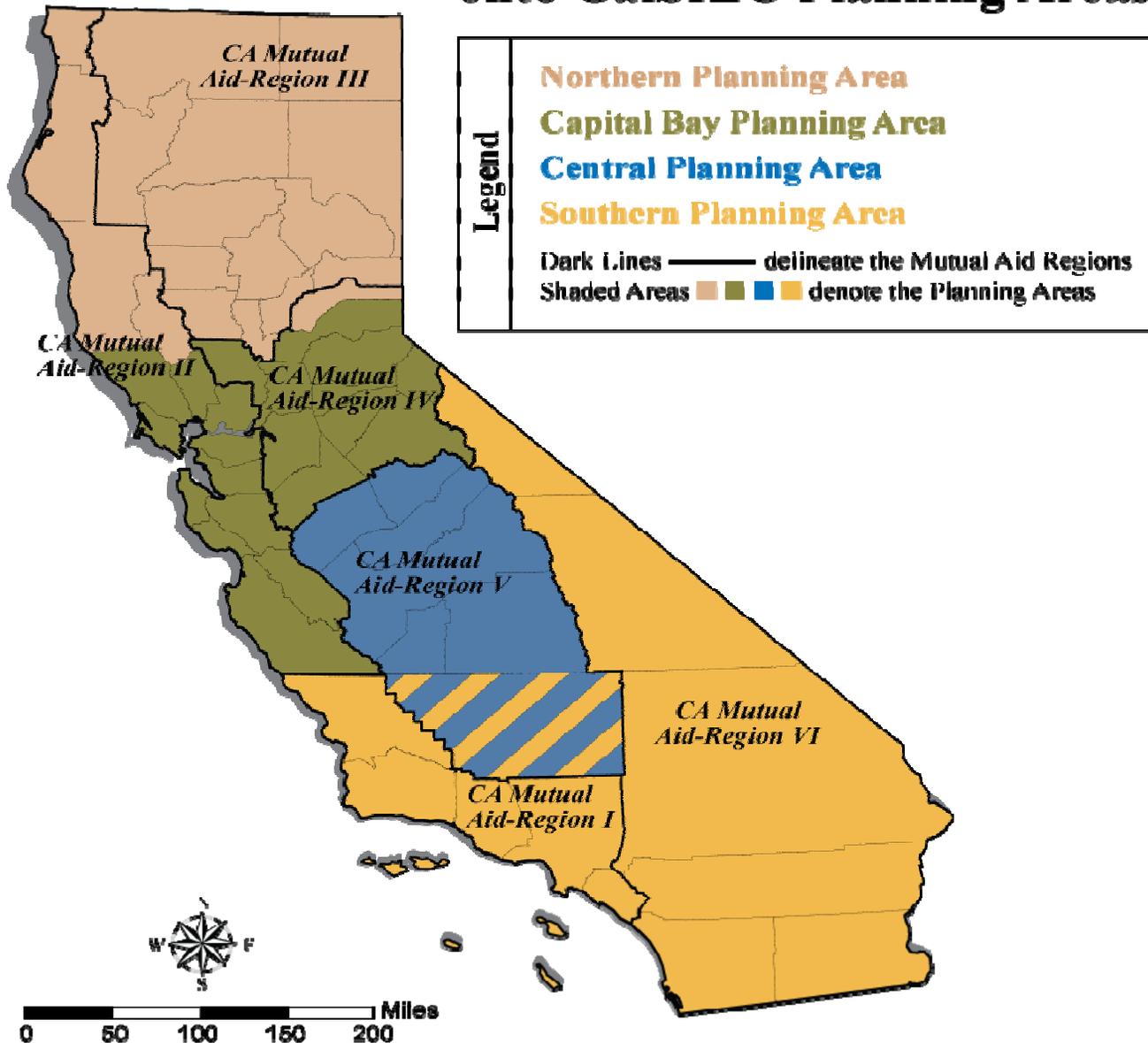




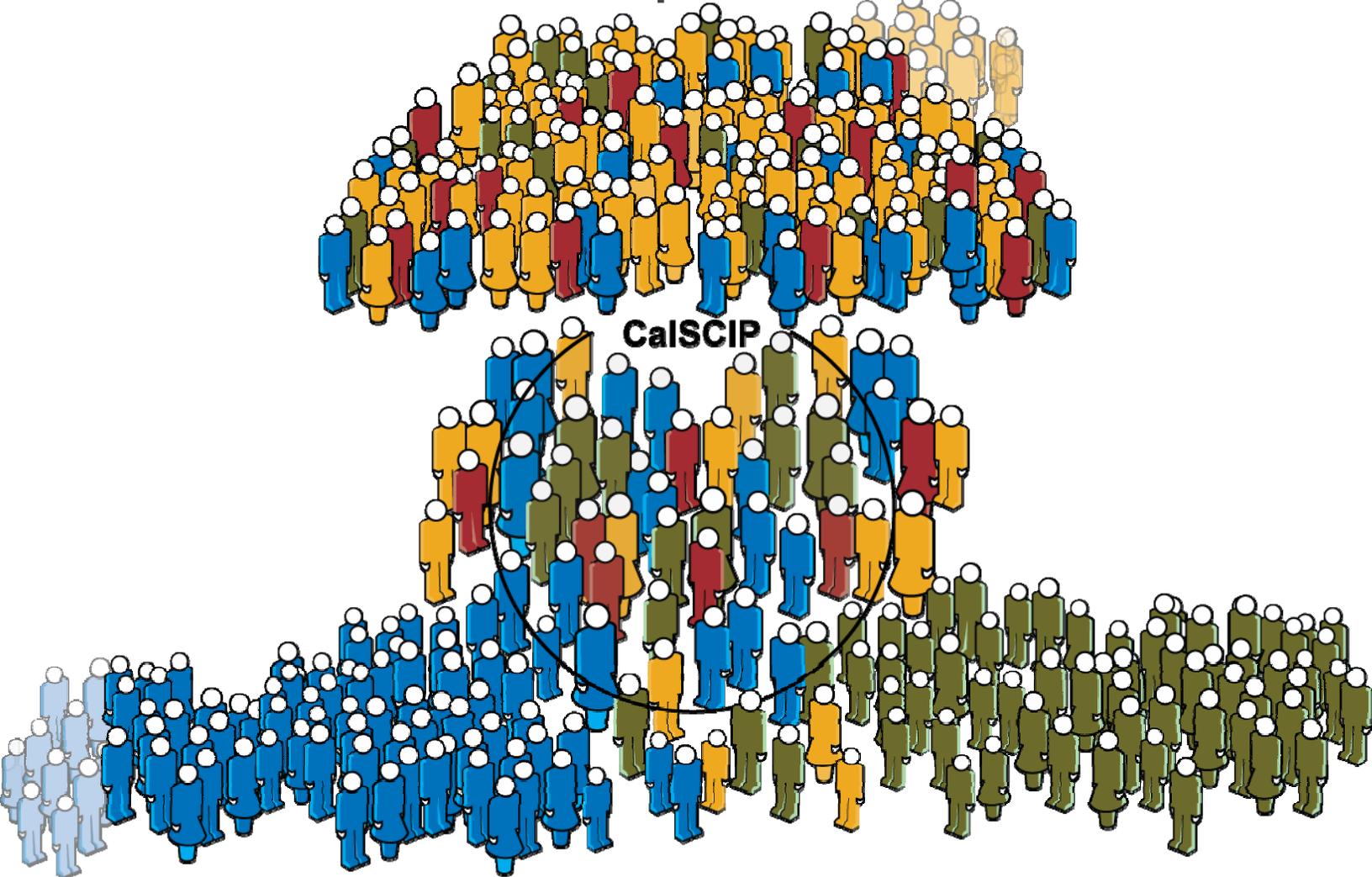
SAFECOM Criteria

- 3.2: Define the process for continuing to have local input and for building local support of the plan.

State of California
Governor's Office of Emergency Services
**Mutual Aid Regions mapped
onto CalSIEC Planning Areas**



**CalSIEC & Planning Areas:
Local and Regional
Perspectives**



**PSRSPC:
State Agency and
Statewide Coordination**

**S/UASI Regions:
Planning & TICPs**



SAFECOM Criteria

- 4.2: Provide an overview of the governance structure that will oversee development and implementation of the plan. Illustrate how it is representative of all of the relevant emergency response disciplines and regions in the state.

Executive Leadership

Office of Emergency Services

- Statutory Chair of the PSRSPC

- CalSIEC Coordination Office

- Statewide Communications Interoperability Coordination Office

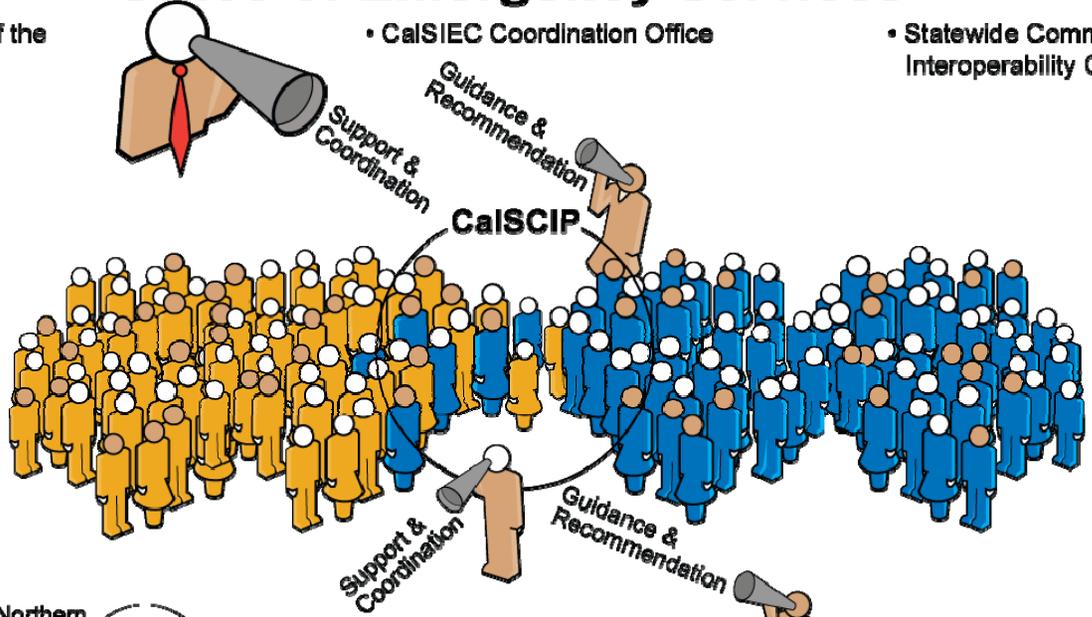
Statewide Governance

CalSIEC

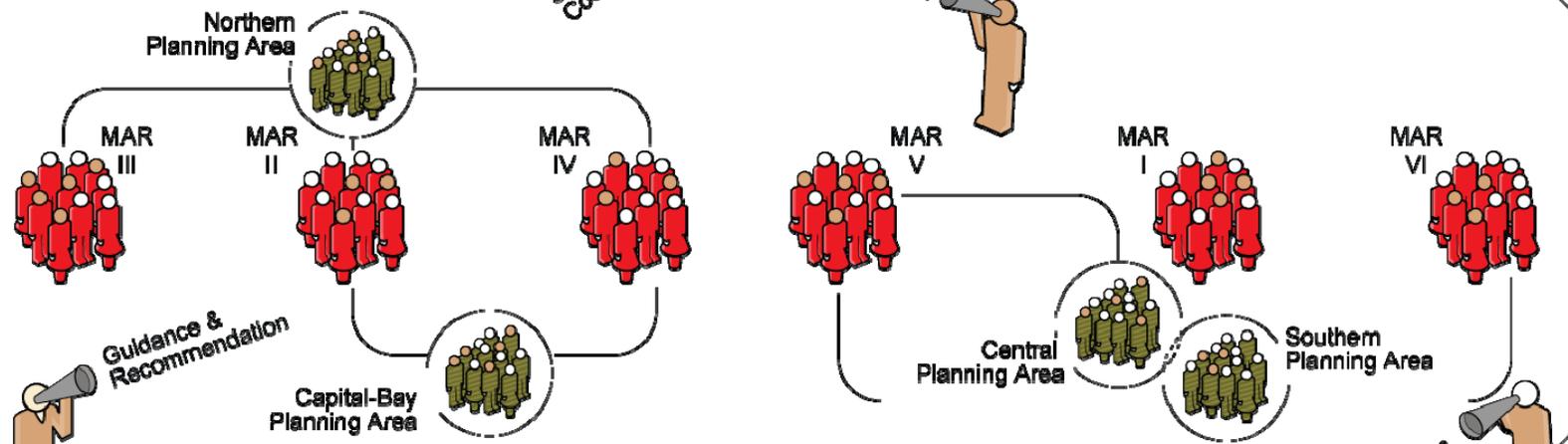
- Provides local, regional & tribal input
- Manages CA's public safety interoperability spectrum

PSRSPC

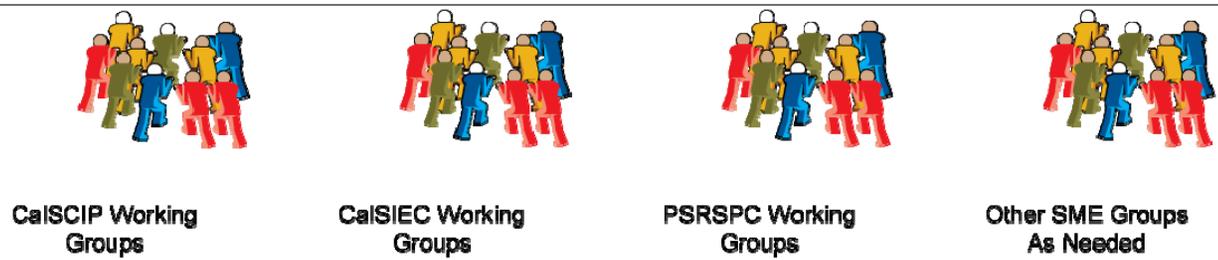
Management of State agency public safety communication planning



Regional Governance – Mutual Aid Regions (MAR) & CalSIEC Planning Areas



Stakeholder Resource Pool





SAFECOM Criteria

- 7.2: Describe the process for offering and requiring training and exercises, as well as any certification that will be needed.

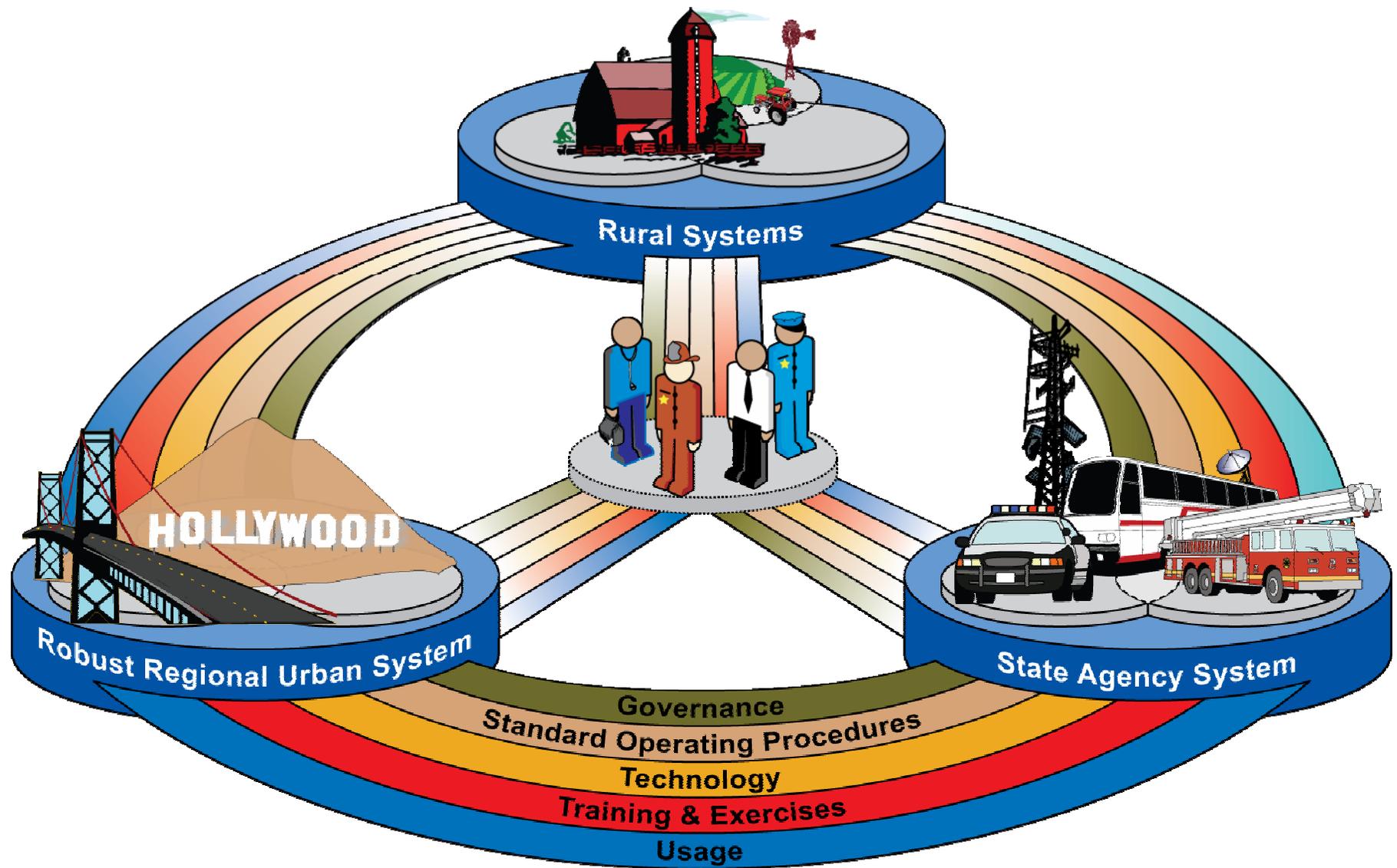
**Standardized Emergency Management System
National Incident Management System
Training Guidance
MATRIX**

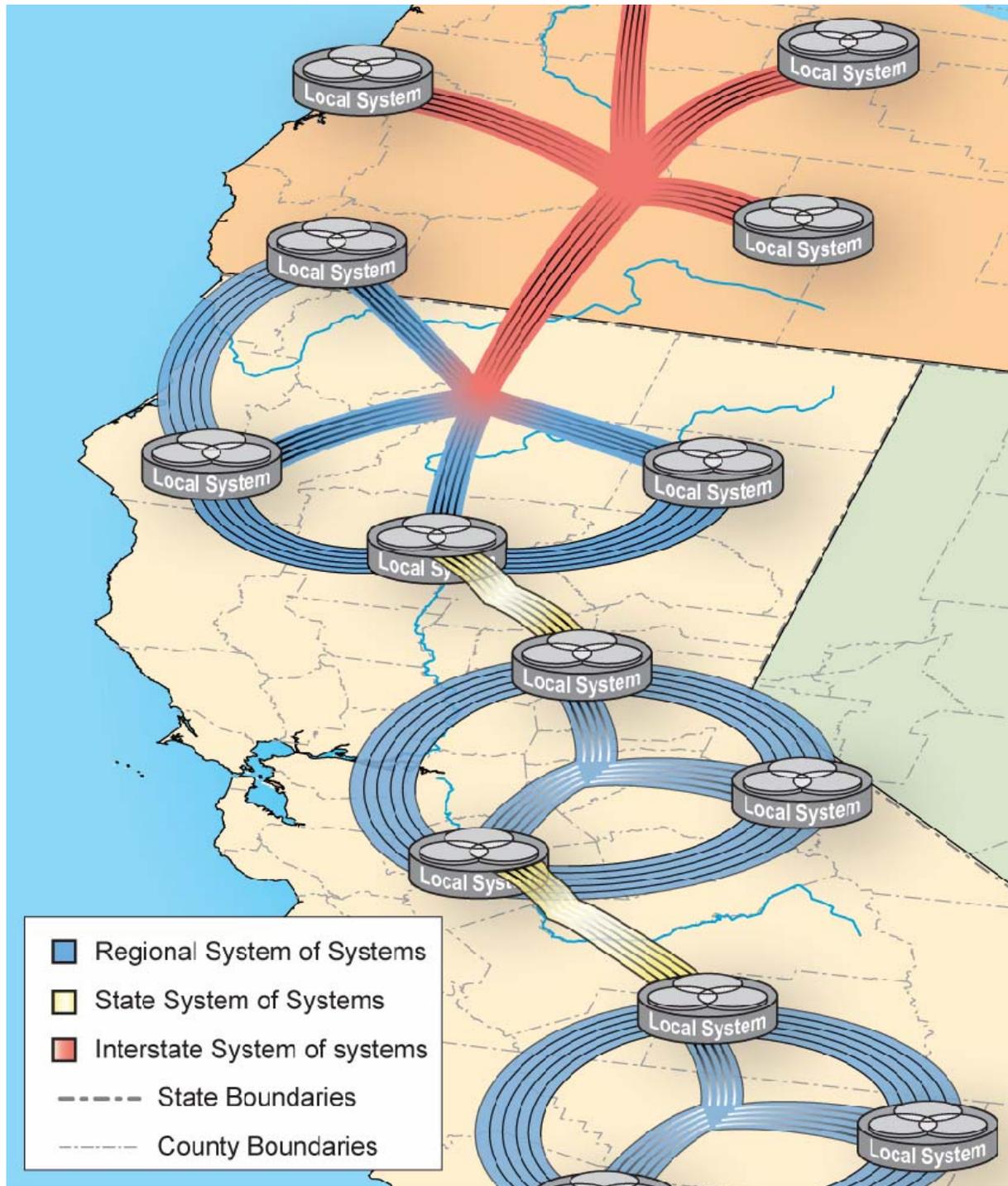
	SEMS Introduction	SEMS EOC	SEMS Executive	ICS 100 (IS 100)	ICS 200 (IS 200)	ICS 402	NIMS (IS 700)	NRP (IS 800)	SEMS - ICS - NIMS The Combined Course	ICS 300	ICS 400
Required: All public employees who may be tasked, directed or called upon to respond for an emergency. At all levels of government and all phased of emergency management. Recommended: CBOs, NGOs, Private Sector, Volunteer Orgs, etc.	●			●			●		●		
Personnel who assist or support the incident organization but do not normally supervise others. Recommended: CBOs, NGOs, Private Sector, Volunteer Orgs, etc.	●			●	●		●		●		
Personnel who supervise a branch, division, group or unit in the field or Emergency Operations Center. Recommended: CBOs, NGOs, Private Sector, Volunteer Orgs, etc.	●	●		●	●		●	●	●	●	
Personnel in the Command/Management or General Staff at an incident or Area Command or in a Emergency Operations Center. Recommended: CBOs, NGOs, Private Sector, Volunteer Orgs, etc.	●	●		●	●		●	●	●	●	●
Executives, administrators and policy makers within agencies that are required to support a SEMS emergency response or recovery organization. Recommended: CBOs, NGOs, Private Sector, Volunteer Orgs, etc.			●			●	●	●			



SAFECOM Criteria

- 5.2: Describe plans for continuing support of legacy systems and developing interfaces among disparate systems while migrating to newer technologies.
- 5.2.1: Describe the migration plan for moving from existing technologies to newly procured technologies.

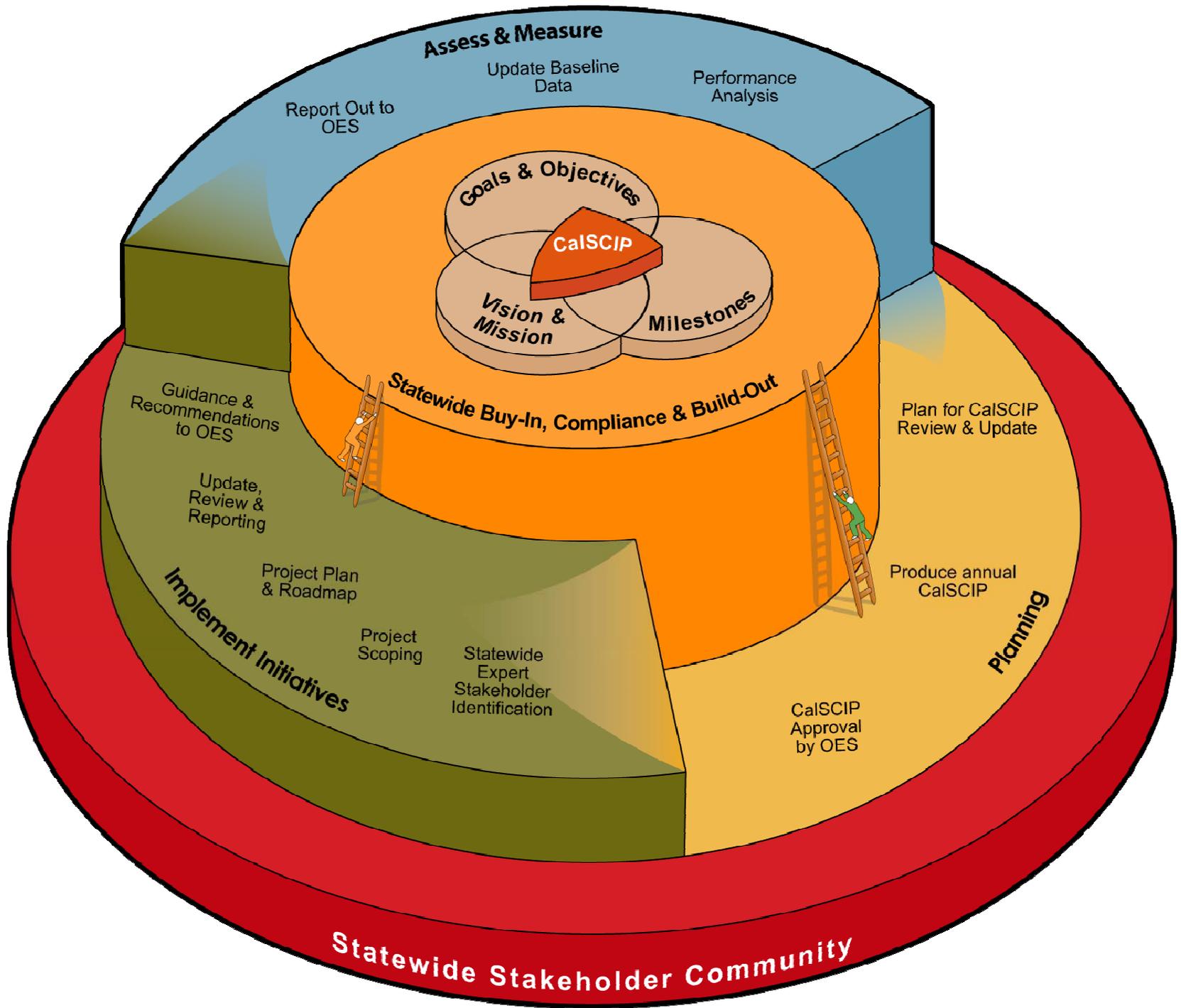






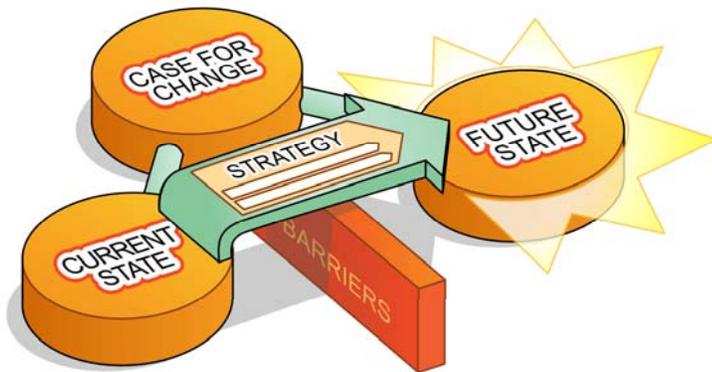
SAFECOM Criteria

- 3.4: Describe the strategy for implementing all components of the statewide plan.



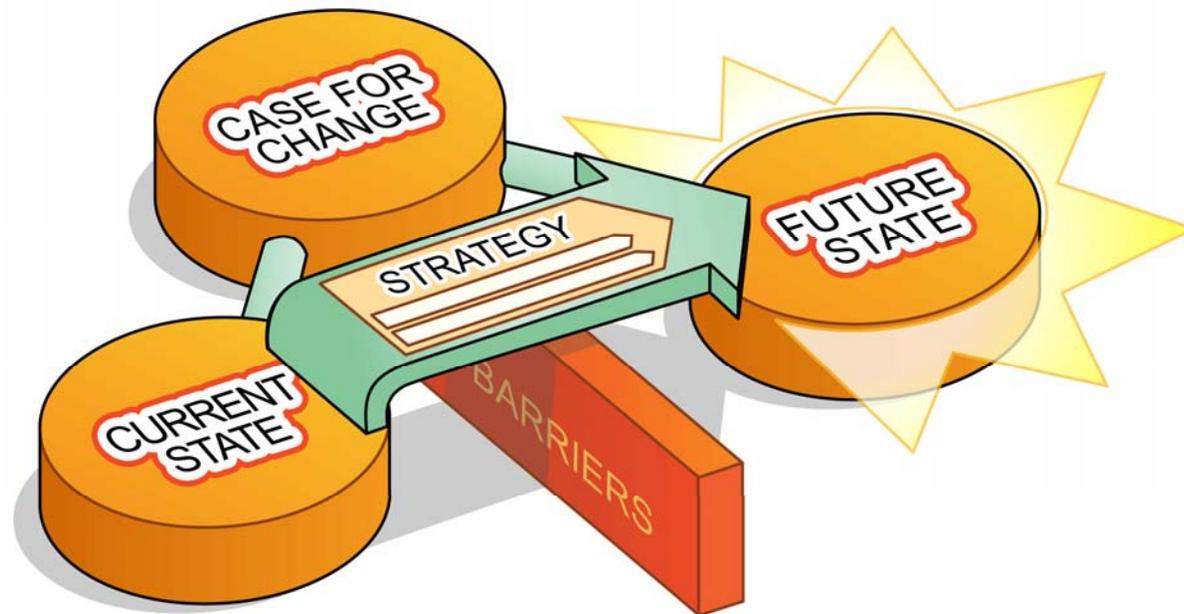


Current State - Review CalSCIP Graphical Storyboard -





Future State - Review CalSCIP Mission, Vision, Goals & Objectives -





CalSCIP Mission

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and well-managed interoperability infrastructure that promotes national standards, and is effective in addressing the unique urban and rural requirements of the public safety first responders and designated public service organizations serving the citizens of California.



CalSCIP Mission

Services Offered

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and **well-managed interoperability infrastructure** that promotes national standards, and is effective in addressing the unique urban and rural requirements of the public safety first responders and designated public service organizations serving the citizens of California.



CalSCIP Mission

Action Oriented

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and well-managed interoperability infrastructure that promotes national standards, and is effective in addressing the unique urban and rural requirements of the public safety first responders and designated public service organizations serving the citizens of California.

Services Offered



CalSCIP Mission

Action Oriented

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and well-managed interoperability infrastructure that promotes national standards, and is effective in addressing the unique urban and rural requirements of the public safety first responders and designated public service organizations serving the citizens of California.

Services Offered

Market Served



CalSCIP Mission

Action Oriented

Provide a statewide strategic planning framework for an innovative, inclusive, scalable, sustainable, and well-managed interoperability infrastructure that promotes national standards, and is effective in addressing the unique urban and rural requirements of the public safety first responders and designated public service organizations serving the citizens of California.

Services Offered

Market Served

Clearly Differentiates the Organization



CalSCIP Vision

By 2017, ensure all local, regional, tribal, state and federal public safety first-responders and designated public service organizations operating within California are able to communicate in real time, across disciplines and jurisdictions, to respond more effectively during day-to-day operations and major incidents.



CalSCIP Goals



Homeland Security

Interoperability Continuum



Governance	Limited Leadership, Planning, and Collaboration Among Areas with Minimal Investment in the Sustainability of Systems and Documentation	Individual Agencies Working Independently	Informal Coordination Between Agencies	Key Multidiscipline Staff Collaboration on a Regular Basis	Regional Committee Working with a Statewide Interoperability Committee	
Standard Operating Procedures		Individual Agency SOPs	Joint SOPs for Planned Events	Joint SOPs for Emergencies	Regional Set of Communications SOPs	National Incident Management System Integrated SOPs
Technology		Swap Radios	Gateway	Shared Channels	Proprietary Shared Systems	Standards-based Shared Systems
Training & Exercises		General Orientation on Equipment	Single Agency Tabletop Exercises for Key Field and Support Staff	Multiagency Tabletop Exercises for Key Field and Support Staff	Multiagency Full Functional Exercise Involving All Staff	Regular Comprehensive Regional Training and Exercises
Usage		Planned Events	Localized Emergency Incidents	Regional Incident Management	Daily Use Throughout Region	
		High Degree of Leadership, Planning, and Collaboration Among Areas with Commitment to and Investment in Sustainability of Systems and Documentation				





CalSCIP Goals

- **Goal 1: Governance** – Maintain coordinated governance for integrated regional and statewide public safety voice and data interoperable communications systems planning
- **Goal 2: Standard Operating Procedures** – Maintain NIMS/SEMS compliant Standard Operating Procedures for statewide interoperable communications
- **Goal 3: Technology** – Develop a statewide standards based *System of Systems* communications network for California's public safety and designated public service practitioners
- **Goal 4: Training & Exercise** – Ensure that regular interoperable communications training and exercise opportunities are designed and offered statewide to California's public safety and designated public service practitioners
- **Goal 5: Usage** – Encourage daily usage statewide of interoperable communications equipment and standard operating procedures



CaISCIIP Objectives

- **Objective 1:** Provide interoperability governance and outreach statewide
- **Objective 2:** Achieve communications operability for state agencies and localities as necessary to support interoperability
- **Objective 3:** Achieve voice and data interoperable communications within each locality to enhance multi-discipline response capabilities for local response
- **Objective 4:** Achieve multi-discipline and multi-jurisdiction voice and data interoperable communications to enhance regional response capabilities
- **Objective 5:** Enhance state agencies' voice and data interoperable communications across California to provide comprehensive support during emergencies

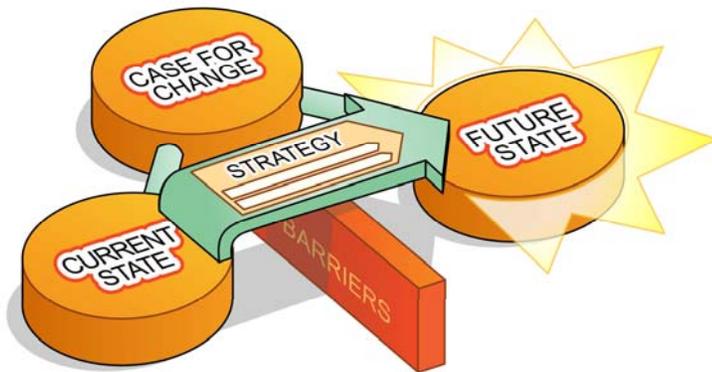


CalSCIP Objectives

- **Objective 6:** Provide tools necessary for region to region and state to region voice and data interoperable communications to enhance mutual aid response capabilities
- **Objective 7:** Enhance communications back-up and redundancy for interoperability systems to ensure communications are maintained following catastrophic events
- **Objective 8:** Support interoperable communications with federal entities, other states and countries to respond to national, multi-state and international emergencies
- **Objective 9:** Achieve the integration of private entities identified as part of critical infrastructure/key resources and the participants in the state emergency operation plan (EOP) into interoperability efforts to ensure communications are maintained during emergencies and recovery efforts



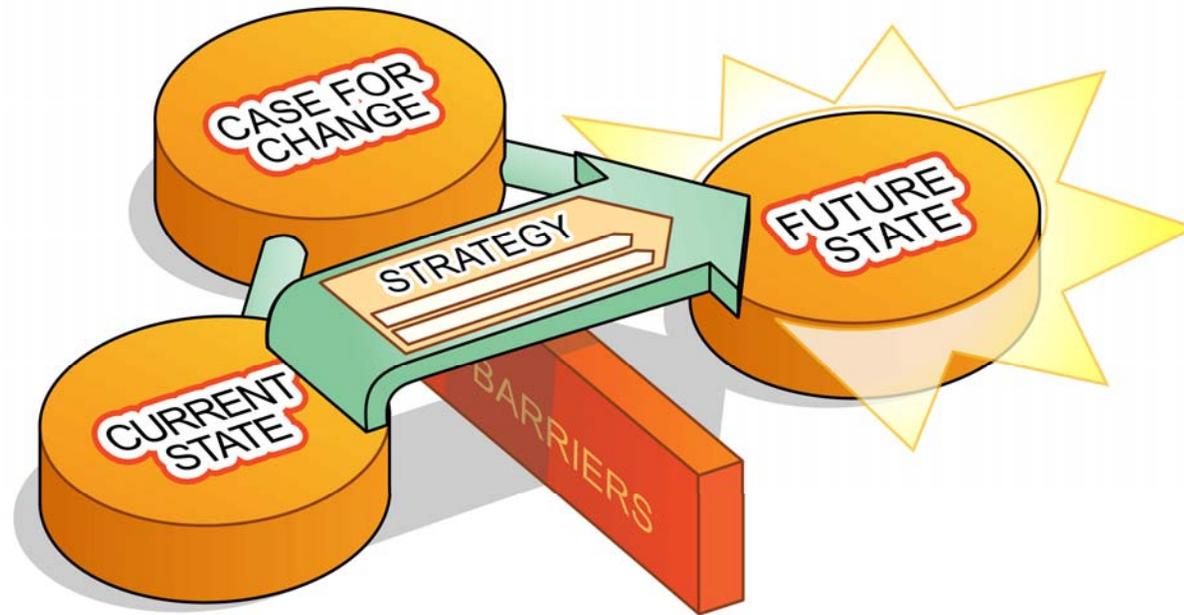
Future State - Review CalSCIP Mission, Vision, Goals & Objectives -





Strategy

- Review CalSCIP Initiatives, Tasks, Performance Measures & Timeline-





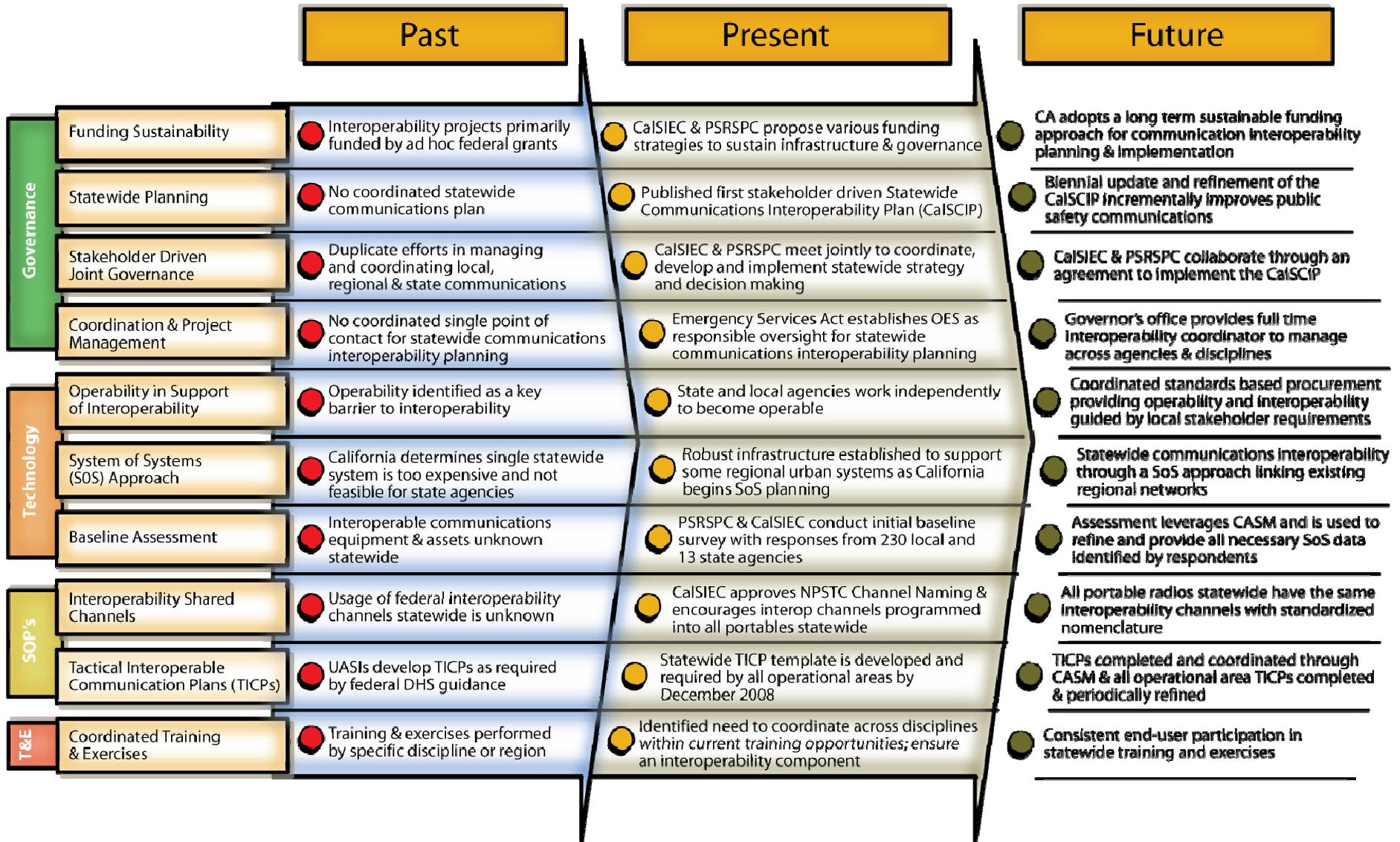
SAFECOM Criteria

- 10.7: Describe critical success factors for implementation of the plan.



CalSCIP Milestones

CalSCIP Milestones

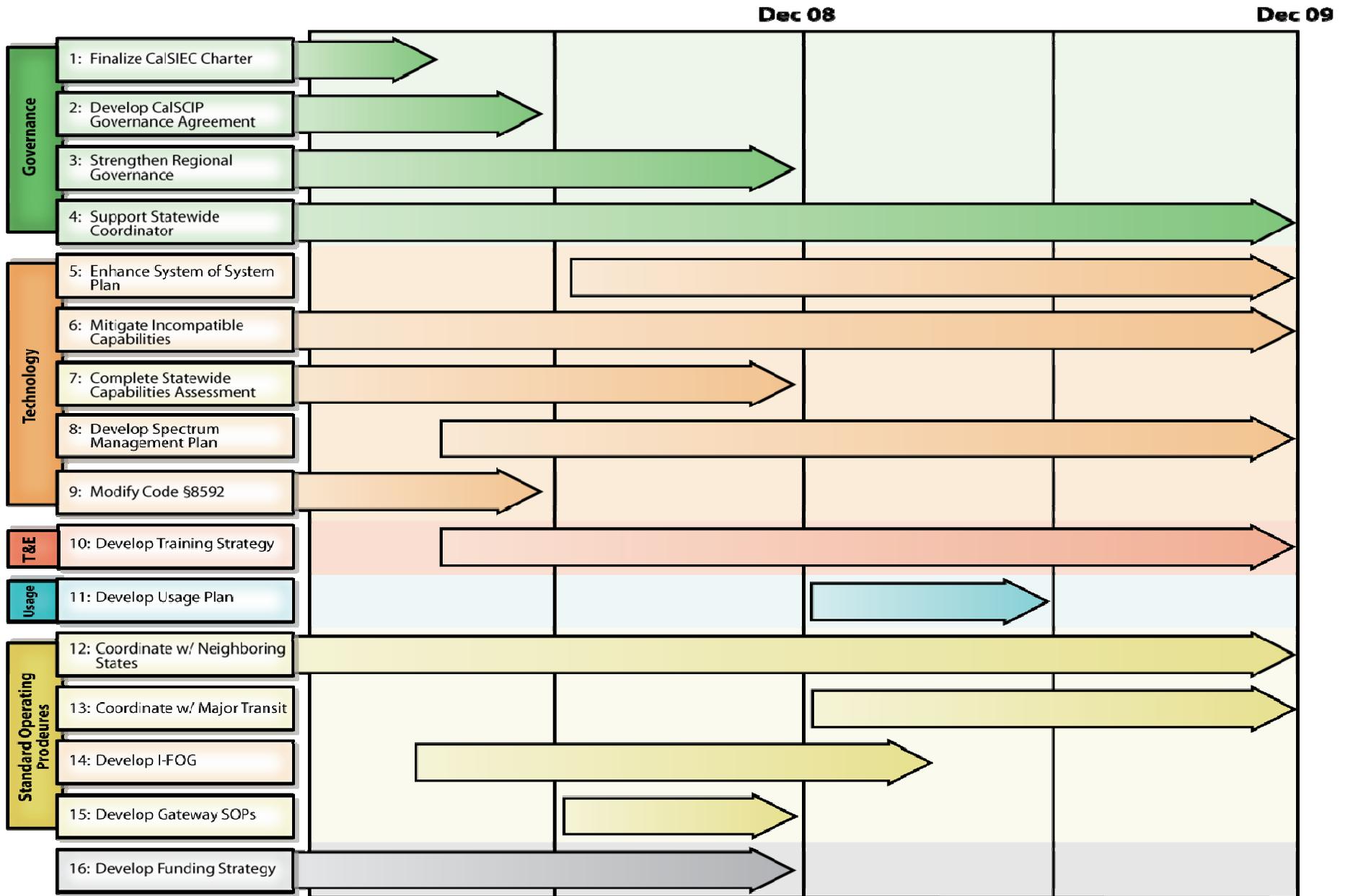




SAFECOM Criteria

- 10.1: Describe the prioritized action plan with short- and long-term goals for achieving the objectives.

CalSCIP Timeline





Contact information

Erin Elder

Erin_elder@sra.com

703-850-6647

Tony Macri

Anthony_macri@sra.com

518-527-7755



Back-Up Slides



Governance Initiative

- **Initiative 1:** Finalize and adopt the CALSIEC governance charter



Governance Initiative

- **Initiative 2:** Develop a formal agreement between the CALSIEC and PSRSPC to define an officially recognized, coordinated, and collaborative governance body responsible for implementing the CalSCIP.



Governance Initiative

- **Initiative 3:** Define and strengthen the integration between the Mutual Aid Regions and the CALSIEC Planning Areas for coordinated development and implementation of the CalSCIP initiatives.



Governance Initiative

- **Initiative 4:** Support a dedicated California Statewide Interoperability Coordinator responsible for the implementation of the CalSCIP and coordination of statewide communications interoperability planning.



Technology Initiative

- **Initiative 5:** Enhance and implement the SoS Preliminary Draft Project Plan



Technology Initiative

- **Initiative 6:** Consider current and long-term solutions to mitigate incompatible capabilities, including:
 - Gateway deployment
 - Multi-band radios covering all required bands currently in place
 - Effective spectrum management
 - IP connecting applications



Technology Initiative

- **Initiative 7:** Identify a process for completion of the statewide capabilities assessment by leveraging TICPs and CASM, as appropriate.



Technology Initiative

- **Initiative 8:** Develop a comprehensive Statewide Interoperability Spectrum Management Plan for the allocation, use and implementation of systems based upon currently available, or soon to be available public safety interoperability spectrum compatible with existing plans, legislation, Federal regulations (e.g. FCC) and guidelines. (e.g. SAFECOM) as appropriate. The initiative requires active and equitable coordination between the:
 - CalSIEC and PSRSPC spectrum planning working groups
 - 700 and 800 MHz Regional Planning Committees (RPCs) and their respective spectrum planning working groups
 - Affected public safety entities eligible for use of the spectrum
 - Spectrum planning working groups and correlating representatives in Oregon, Nevada, Arizona, and (via the State Department) Mexico



Technology Initiative

- **Initiative 9:** Modify Government Code §8592 to encourage statewide compliance with the CalSCIP requiring that (1) all projects funded by state and Federal funds must comply with CalSCIP and (2) distribution of grant funds are contingent upon compliance with the CalSCIP.



Training, Exercises & Usage Initiatives

- **Initiative 10:** Develop a training strategy and implement a long-term, continuous, single and multi-discipline training program for communications interoperability.



Training, Exercises & Usage Initiatives

- **Initiative 11:** Develop a regular usage plan and protocols for all agencies statewide, including Federal responding agencies.



SOP Initiatives

- **Initiative 12:** Develop a statewide strategic plan that builds upon existing local, regional and state SOPs for coordinated interoperable communications with neighboring states and Mexico.



SOP Initiatives

- **Initiative 13:** Develop a statewide plan addressing communications interoperability with safety and security elements of the major transit systems, ports, and rail operations as appropriate.



SOP Initiatives

- **Initiative 14:** Develop a statewide communications Interoperability Field Operations Guide (I-FOG).



SOP Initiatives

- **Initiative 15:** Develop SOPs for statewide Interoperability Gateways.



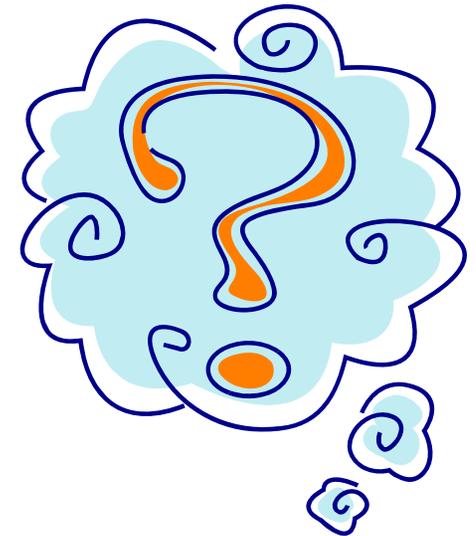
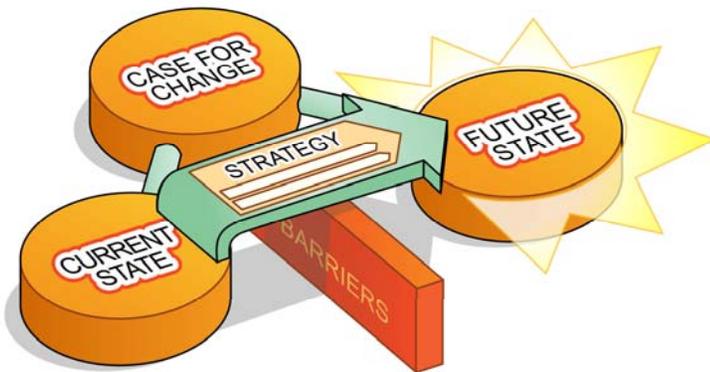
Funding Initiatives

- **Initiative 16:** Develop a funding strategy leveraging ongoing efforts.



Strategy

- Review CalSCIP Initiatives, Tasks, Performance Measures & Timeline-





Long Term Performance Measures



Long-Term Measures

1. Demonstrated improved ability and effectiveness of local, regional, state, tribal, non-profit and private entities to communicate with voice and data
2. Coordination of statewide interoperable communication efforts

Performance will be measured by:

- Maintaining and updating the baseline to assess rightward movement along each lane of the Interoperability Continuum