

SAN MATEO COUNTY SEA LEVEL RISE INITIATIVE



C/CAG BOARD MEETING // JULY 13, 2017

PRESENTATION GOALS

- Provide an overview of:
 - Sea Change SMC Initiative
 - Draft sea level rise vulnerability assessment results
 - Next steps

RECENT FLOODING AND EROSION



San Mateo County Declares New Emergency in Wake of Damaging Storms

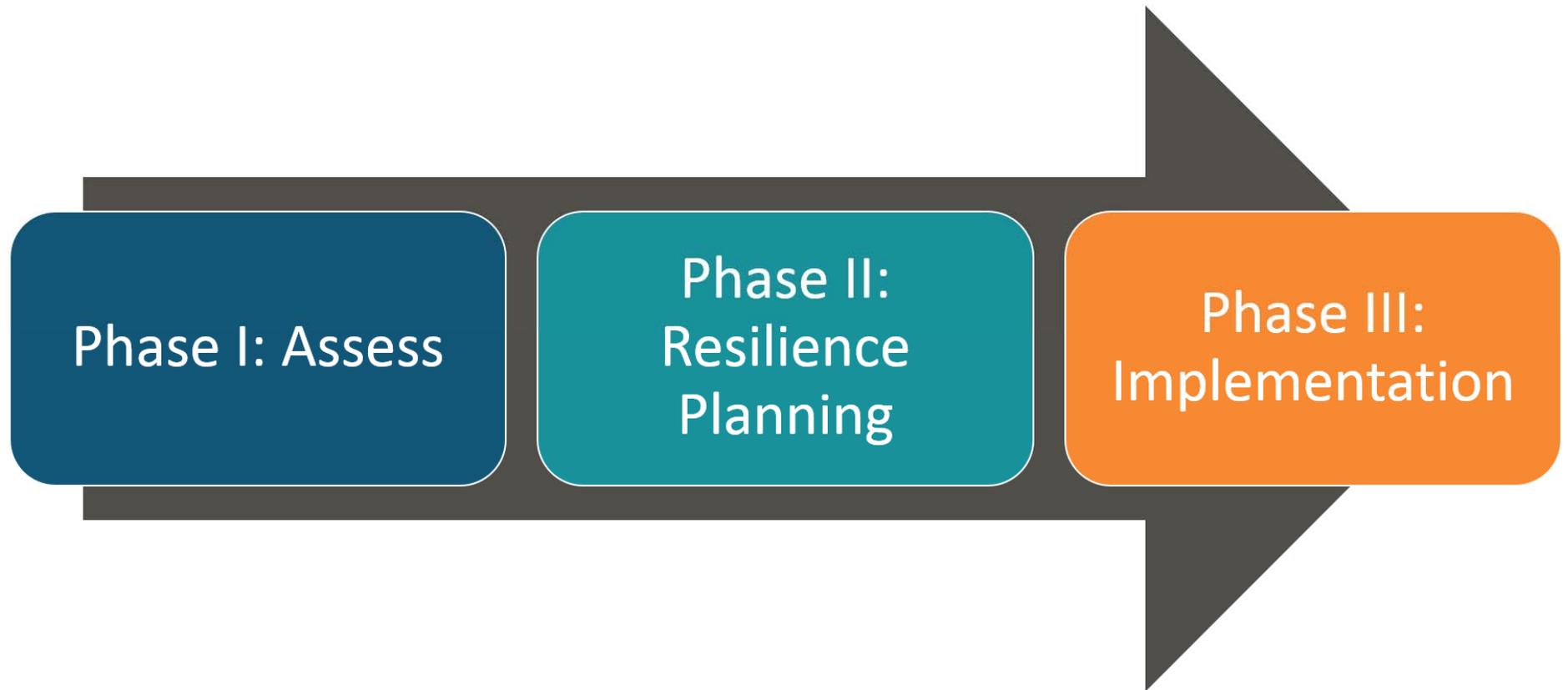
By Bay City News



SEA CHANGE

SAN MATEO COUNTY

SEA CHANGE SMC STEPS



DRAFT VULNERABILITY ASSESSMENT

- Released April 5th
- Comment period closed May 15th
- Document available: <http://seachangesmc.com/current-efforts/vulnerability-assessment/>



WHAT THE REPORT IS AND ISN'T

What it Does

- Includes Bayshore and North Coast
- Uses best available mapping and data
- Raises awareness of key risks and impacts
- Provides a first step in a multi-phase process
- Includes extensive coordination with cities, agencies, and others

What it Doesn't Do

- Doesn't include south of Half Moon Bay
- Not a prioritization of risks
- Not any new regulations
- Not a complete inventory
- Not an analysis of fluvial flooding

REPORT CHAPTERS

- Executive Summary
- Ch 1 - Introduction
- Ch 2 - Methodology and Approach
- Ch 3 - Vulnerability and Risk Analysis
- Ch 4 - Adaptation Planning
- Ch 5 - Getting Ahead of Sea Level Rise

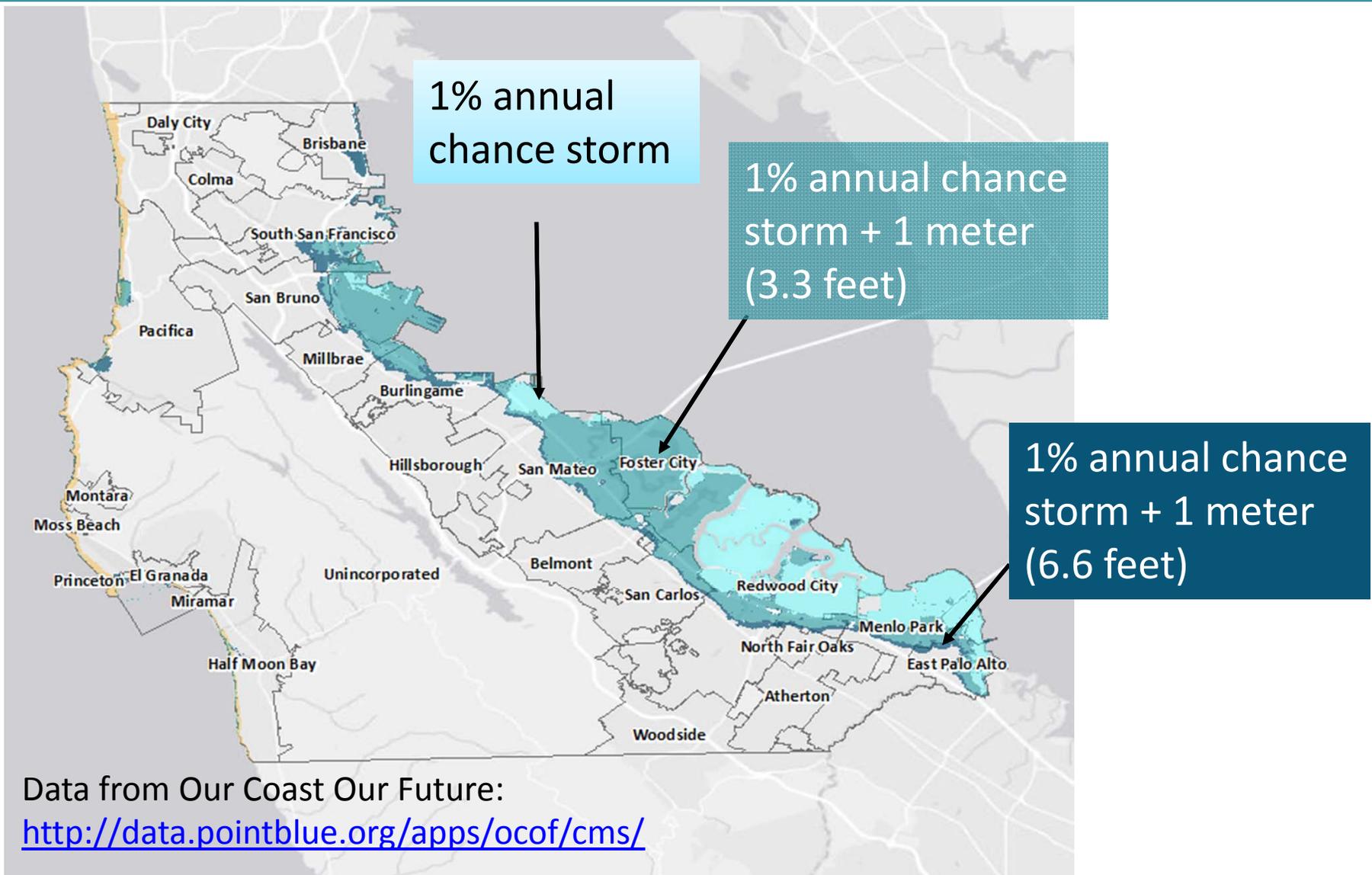
Appendices

STAKEHOLDER INVOLVEMENT & OUTREACH

- Technical Working Group
- Policy Advisory Committee
- Community Task Force
- Public Outreach



SEA LEVEL RISE SCENARIOS



PROJECT AREA FINDINGS



**7,000 acres
of wetlands**



**\$39 billion in
assessed value**



**360 miles of
roads and
highways**



**Over 100,000
people**

Based on 3.3 feet of sea level rise and a 1% annual chance storm

KEY FINDINGS



STRUCTURAL SHORELINES



AIRPORTS



COMMUNITY LAND USES



WASTEWATER



HAZARDOUS MATERIALS



PARKS AND RECREATION



GROUND TRANSPORTATION



ENERGY INFRASTRUCTURE



SEAPORTS



NATURAL ASSETS

KEY FINDINGS (3.3 FEET SLR)



WASTEWATER

Loss of wastewater system functionality; overflow of untreated waste; saltwater intrusion of treatment process

**5 / 9
treatment
plants**



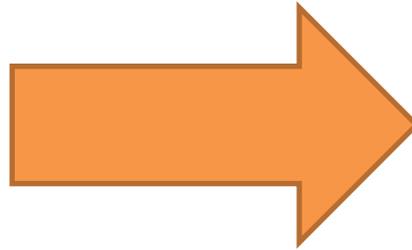
GROUND
TRANSPORTATION

Erosion and inundation of highways and local roadways; loss of public transportation services (train, bus, BART, etc.)

**70 / 360
highway
miles**

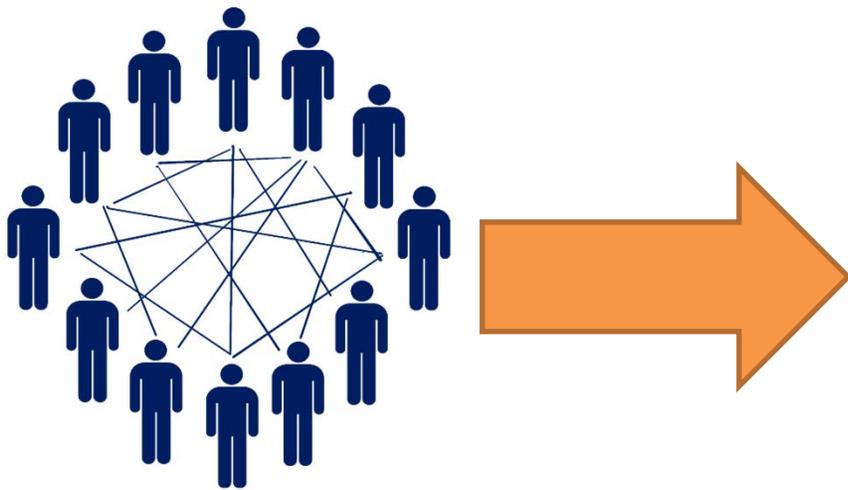
**292 / 2,000
road miles**

CASCADING IMPACTS



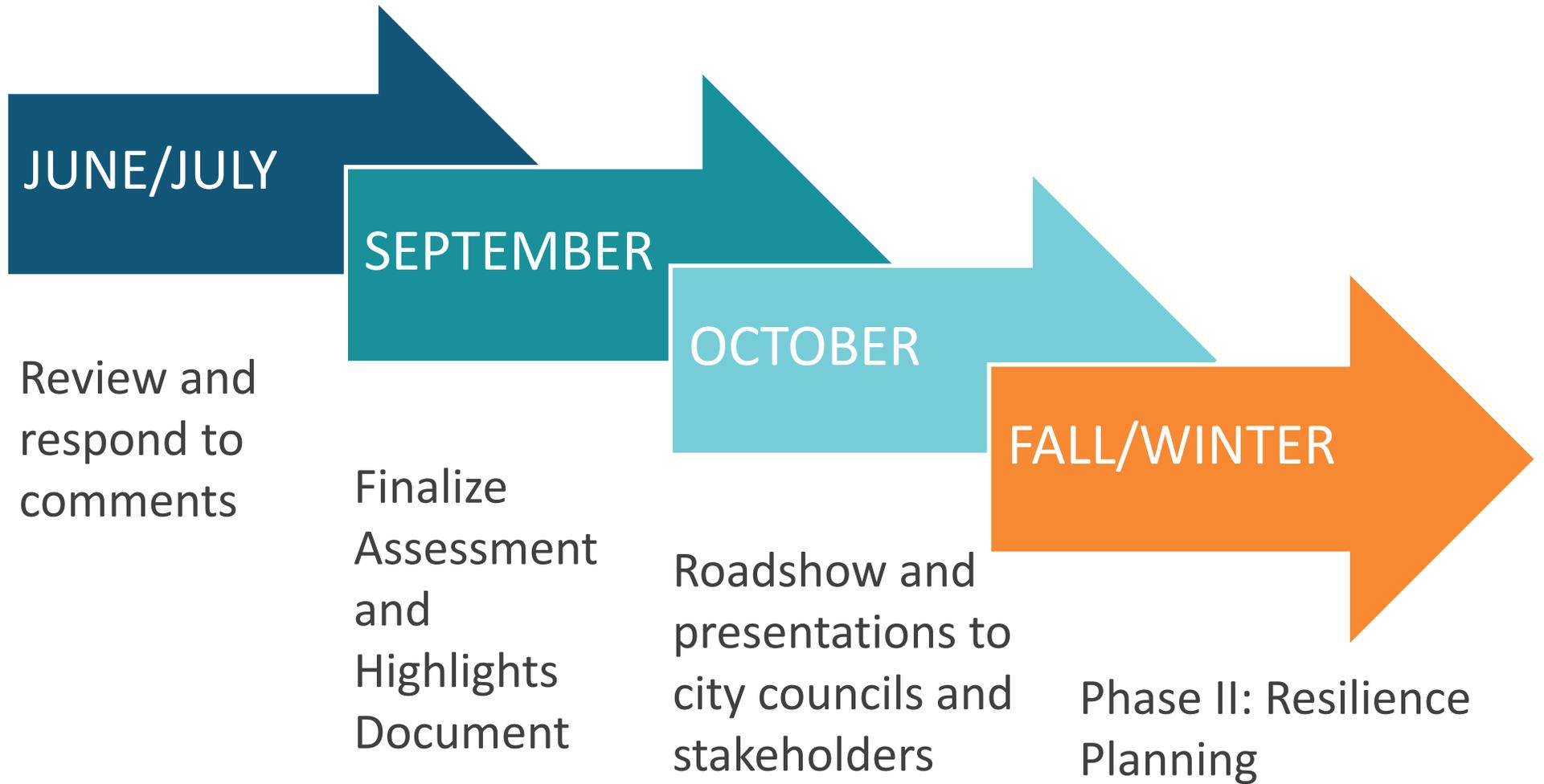
- Residents unable to reach jobs and access services
- Major local, regional transportation delays
- Local and regional economic impacts
- Delay in emergency and police services response time

GOVERNANCE & VULNERABILITY



- Multiple property owners; shared jurisdiction
- Divergent mandates, dissimilar priorities
- Challenges posed by sea level rise do not fit within organizational mandates
- Unprecedented rate of change
- Complex permitting processes

PHASE I: FINAL STEPS

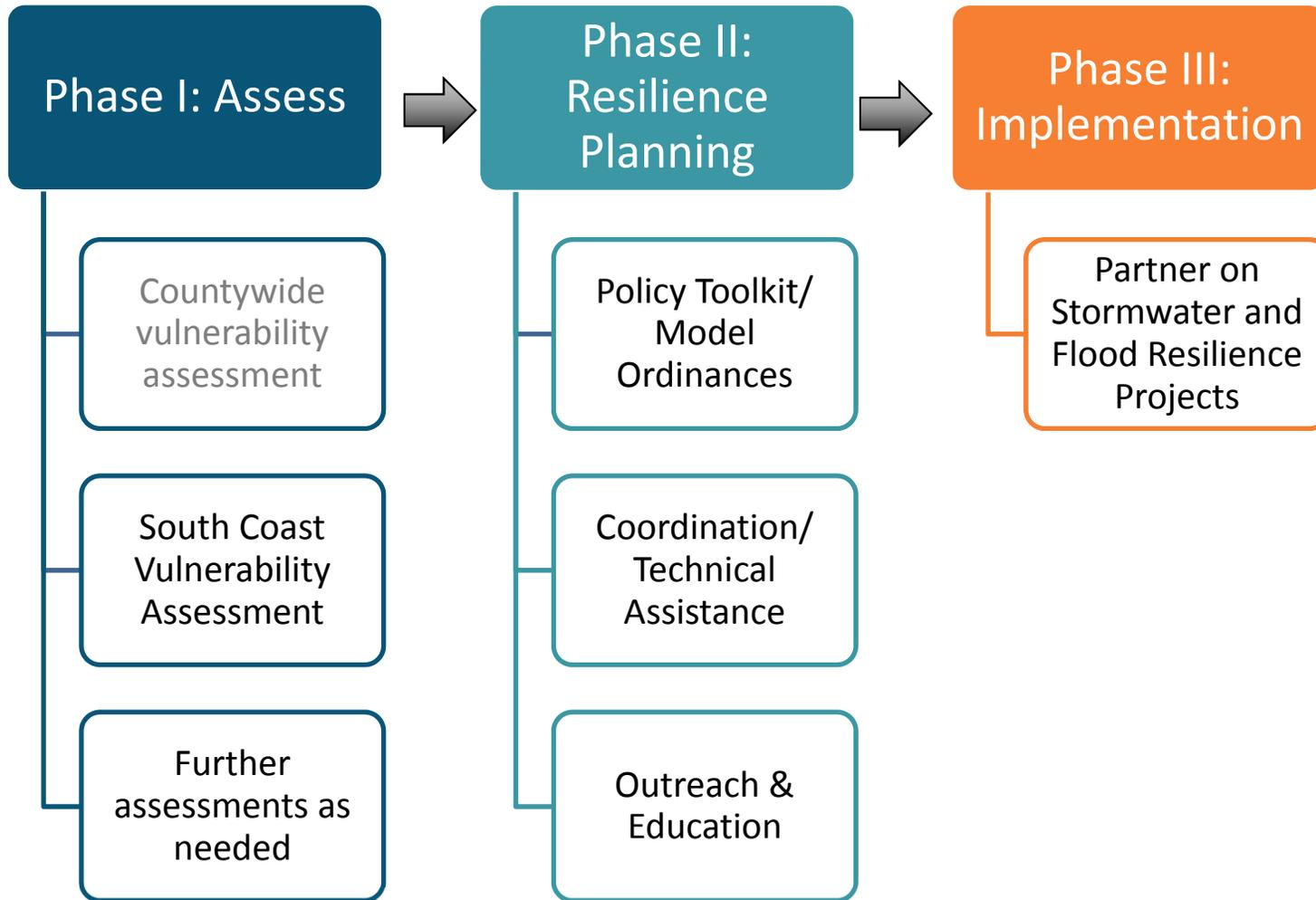


PHASE II: RESILIENCE PLANNING

GOALS:

- Mainstream adaptation planning in County operations
- Be a resource to cities, asset owners, and others
- Share information
- Increase awareness of sea level rise impacts
- Encourage collaborative solutions

STRATEGIES



PHASE II: PLANNING SUPPORT

STRATEGIES:

- Integrate adaptation into County plans, policies, projects and operations
- Provide Technical Assistance to cities
- Develop a Policy Toolkit/ provide support for SB 379 compliance

APPROACH:

- Adaptation Policy and Planning Workgroup

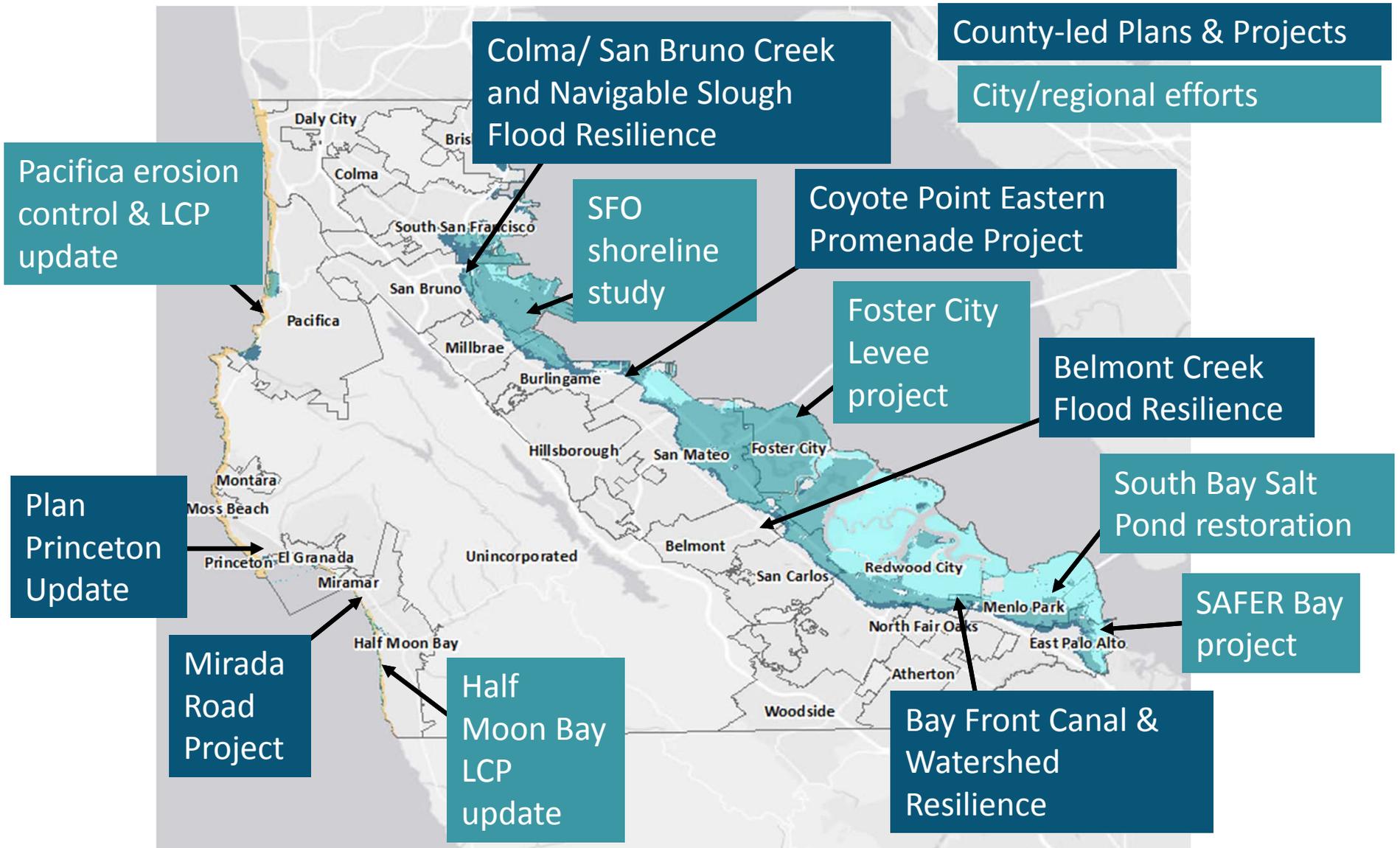
PHASE II: OUTREACH

STRATEGIES:

- Sea Level Rise Roadshow
- Adaptation Convening
- Communications and Messaging Tools
- Community engagement pilot projects
- Adaptation clearinghouse



PHASE III: OPPORTUNITIES





To download the Draft Vulnerability Assessment, visit:
<http://seachangesmc.com/current-efforts/vulnerability-assessment/>

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Linda Mar/ Pacifica State Beach, Photo by H Papendick