



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 4

A background image showing a view of the Golden Gate Bridge in San Francisco, with the city skyline and hills visible in the distance under a clear blue sky.

Update on Fires

Executive Committee Meeting

October 16, 2017

Wayne Kino,
Director of Compliance & Enforcement

Eric Stevenson
Director of Meteorology and Measurement

Judith Cutino, Health Officer

Lisa Fasano, Communications Officer

Overview

- Air District Discovery/Notification
- Air District Response Objectives
- Summary of Fires
- Health Effects of Smoke
- Communications and Media
- Air Monitoring and Quality
- Summary

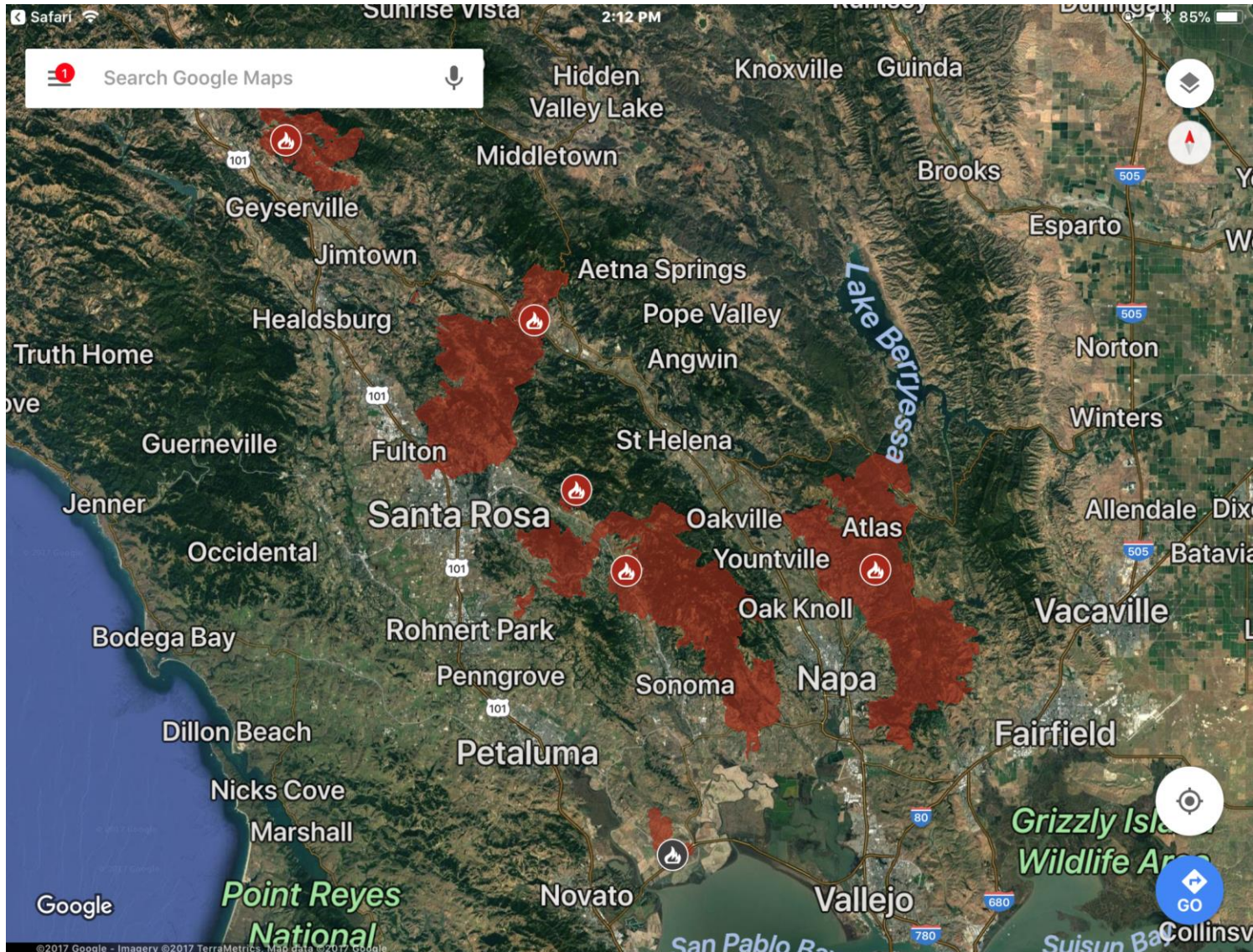
Discovery/Notification

- Observation of an accidental release
- Citizen complaints
- Emergency response agencies
- Media reports
- Facility notification
- Community Awareness & Emergency Response (CAER) program (Contra Costa County only)

Response Objectives

- Support first responders
- Identify the source and stop or minimize the emissions
- Gather information identifying emissions, community impacts, and equipment involved
- Determine additional Air District resources to be deployed
- Conduct sampling, modeling, lab analysis
- Coordinate effort with other relevant agencies

California Map of Fires

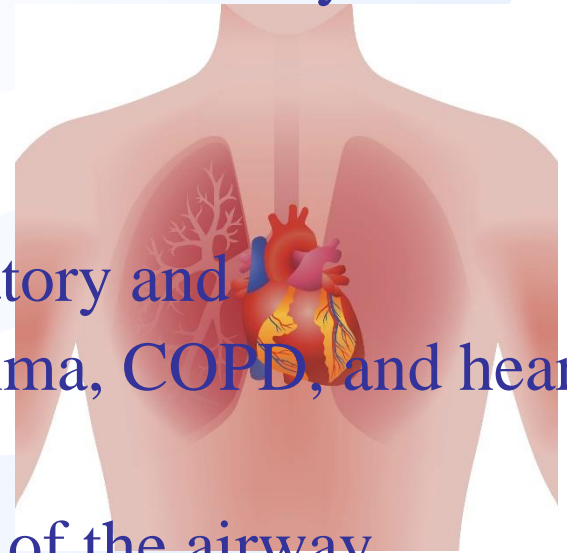


Fire Timeline

- On Sunday afternoon, standby staff responds to a wrecking yard/grass fire in Napa
- By Sunday evening at approximately 10 pm, northern California 911 dispatchers were flooded with reports of fires
- By Monday morning, over 20 fires are burning in California
- On Monday morning, Air District issues a smoke advisory for the Bay Area

Smoke Facts

- Composed of particulate matter and a mixture of various organic and inorganic gases.
- Exposure to high concentrations of smoke may cause:
 - Irritation of eyes, nose, throat, airway and lungs.
 - Chest tightness, cough, wheezing and difficulty breathing.
- More serious effects may include:
 - Exacerbation of pre-existing respiratory and cardiovascular disease such as asthma, COPD, and heart failure.
 - Bronchitis – chronic inflammation of the airway.
 - Increased risk of heart attack and stroke.



Reduce Exposure

- Stay Indoors with windows and doors closed
- Run air conditioner on recirculate, OR use freestanding indoor air HEPA filter
- Avoid outdoor activities, including exercise or sports while outdoor air is unhealthy
- Keep indoor air as clean as possible. Avoid activities that compromise indoor air, such as vacuuming, gas stoves, candles, ozone generators
- Seek a location with filtered air-conditioned air, such as a library or mall
- If outdoors for a prolonged period, an N95 particulate mask offers some protection.
- Spare the Air – curtail wood burning, lawn mowing, driving, and barbecuing

North Bay Wildfires

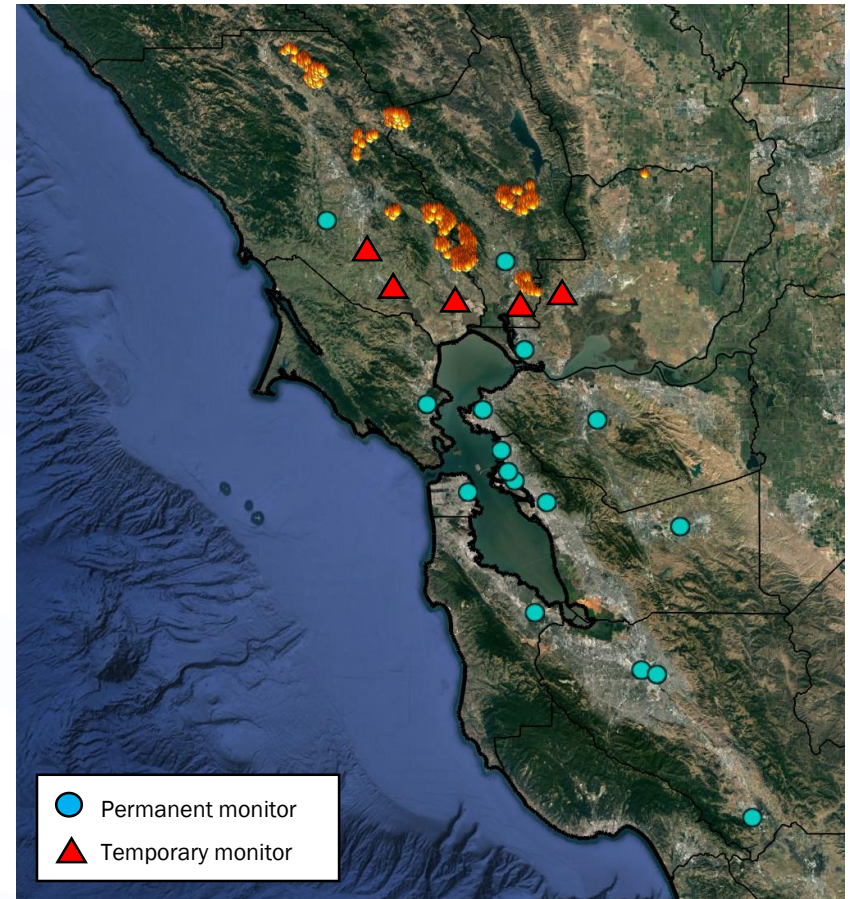
- On the evening of Sunday, October 8, numerous wildfires started in parts of Sonoma and Napa counties
- Wildfires spread rapidly due to very strong offshore winds, low relative humidity, and dry fuels
- Air quality became unhealthy continued for several days due to ongoing fires and persistent northerly winds
- Relatively narrow but dense smoke plumes resulted in highly-variable air quality conditions
- Air District updated air quality forecasts early on Monday, October 9 to reflect wildfire smoke effects and worked closely with other agencies and groups that requested air quality updates through the week and weekend



MODIS satellite image from Thursday 10/12/2017

Monitoring Response

- In addition to the Air District's 16 permanent PM_{2.5} stations, five temporary monitors were deployed with the assistance of CARB and Sonoma Technology
 - Rohnert Park
 - Petaluma
 - Sonoma
 - Napa (south)
 - Cordelia
- These temporary monitors were positioned to more-closely assess air quality conditions immediately downwind of the fires



Summary of Daily Average PM_{2.5} Concentrations

($\mu\text{g}/\text{m}^3$) Color Coded by AQI Category (numbers are in *concentration* units, not AQI)

	Sun 10/08	Mon 10/09	Tue 10/10	Wed 10/11	Thu 10/12	Fri 10/13	Sat 10/14
Napa	25	86	N/A ¹	160	102	215	39
Napa Valley College	42	134	243	132	113	186	28
Sebastopol	4	57	82	26	20	34	18
San Rafael	10	75	66	29	56	40	26
Vallejo	11	34	73	66	80	102	18
San Francisco	15	35	46	25	50	35	21
San Pablo	12	43	69	33	59	71	26
Berkeley	9	24	42	30	47	49	21
Oakland West	12	29	35	34	55	56	23
Oakland East	11	19	21	45	58	70	28
Laney College	14	28	33	38	63	71	26
Concord	12	22	26	89	63	60	31
Livermore	9	19	18	38	34	23	9
Redwood City	N/A ²	N/A ²	30	46	61	58	25
San Jose Jackson	N/A ²	N/A ²	21	39	34	48	26
San Jose Knox	N/A ²	N/A ²	24	37	40	50	24
Gilroy	10	11	15	41	35	48	28

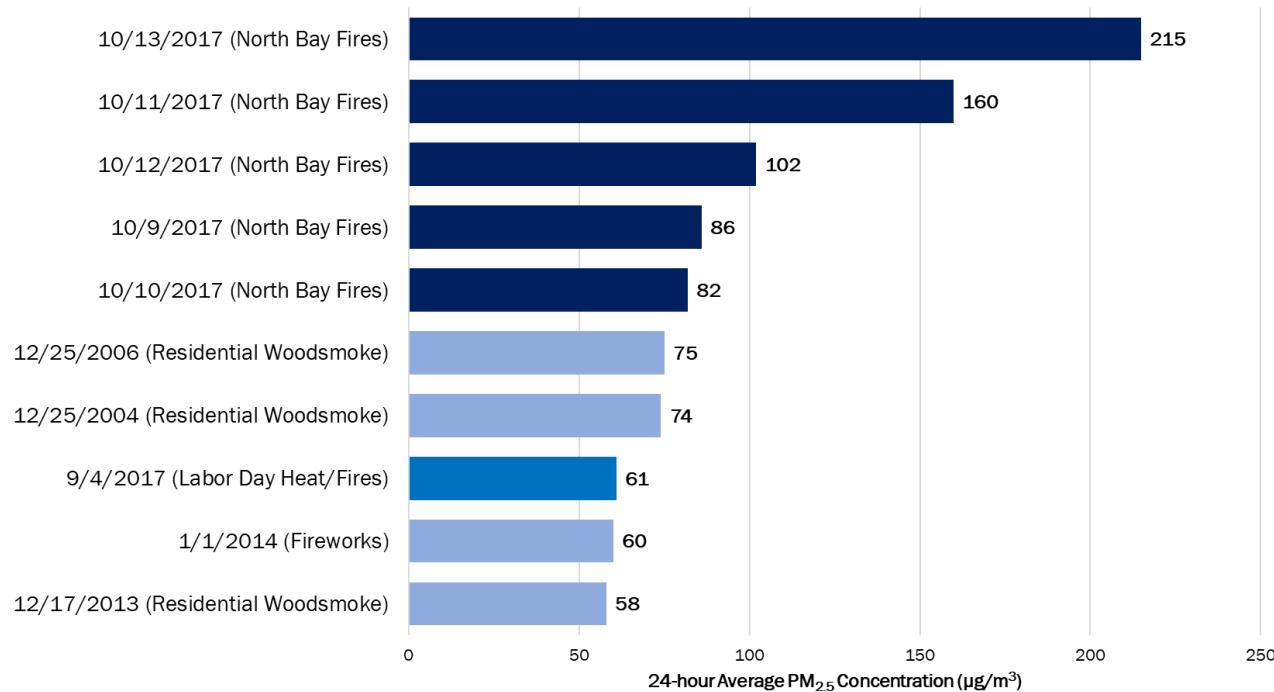
Air Quality Index	
	Good
	Moderate
	Unhealthy for Sensitive Groups
	Unhealthy
	Very Unhealthy

} Air Quality Exceedance

All Air District monitors recorded at least one PM_{2.5} exceedance during the wildfire smoke event

Historical PM_{2.5} Days

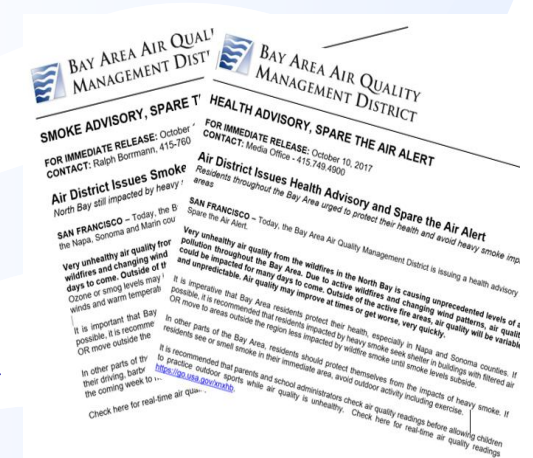
Top Ten PM_{2.5} Days in the Bay Area since 2003



- Six of the top ten PM_{2.5} Days in the Bay Area (since 2003) have occurred in 2017
- The top five PM_{2.5} days are from the North Bay wildfire event
- One day from the Labor Day 2017 heat & wildfire smoke event made the top ten

Communicating Air Impacts

- Developed brief, active talking points
- Focused on Air District expertise
- Responded quickly to media & public info requests
- Social media helped move messages out further
- Credibility key – stayed in Air District’s lane
- Air District air quality expert in the region
- Communications, Web Team, Meteorology, Compliance & Health Officer worked effectively as a team



Summary

- Monitoring air quality and providing air quality data
- Communicating air quality impacts
- Aiding first responders by:
 - Providing and distributing over 40,000 N95 particulate masks (handout)
- Preparing for the post fire clean-up

Bay Area Regional Collaborative (BARC) Update

BAAQMD Executive Committee
October 16, 2017



Key Projects

- Model Solar Ordinance
- Raising the Bar on Regional Resilience Report
- ART Bay Area
- Resilient by Design Bay Area Challenge



Model Solar Ordinance Program Support

October 23rd - 1st Bimonthly Work
Session

- *In depth review of Cost Effectiveness
Study by Statewide Codes and
Standards team*
- <http://www.baaqmd.gov/solartoolkit>



Advancing 6 RESILIENCE ACTIONS Plan Bay Area

1. Develop a regional governance strategy for climate adaptation projects
2. Provide stronger policy leadership on resilient housing and infrastructure
3. Create new funding sources for adaptation and resilience
4. Establish and provide a resilience technical services team
5. Expand the region's network of natural infrastructure
6. Establish the Regional Advance Mitigation Program (RAMP)



RAISING THE BAR on Regional Resilience

6

STEPS

4

CASE STUDIES

Tackling sea level rise, increased flooding, and earthquakes in the San Francisco Bay Area

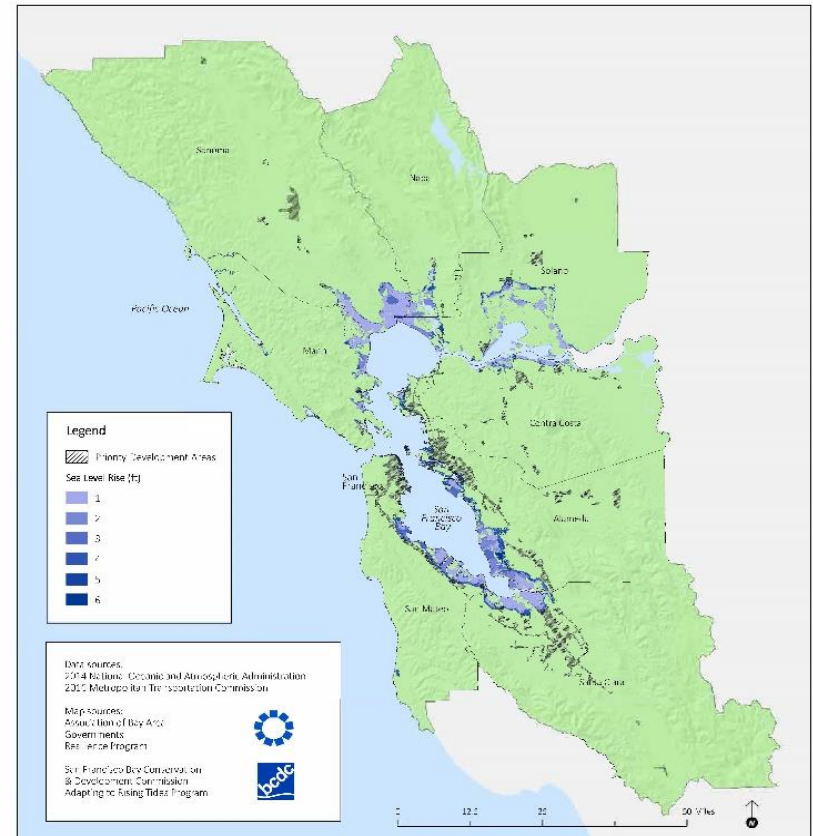
Bay Area Regional Collaborative

Draft
September 2017

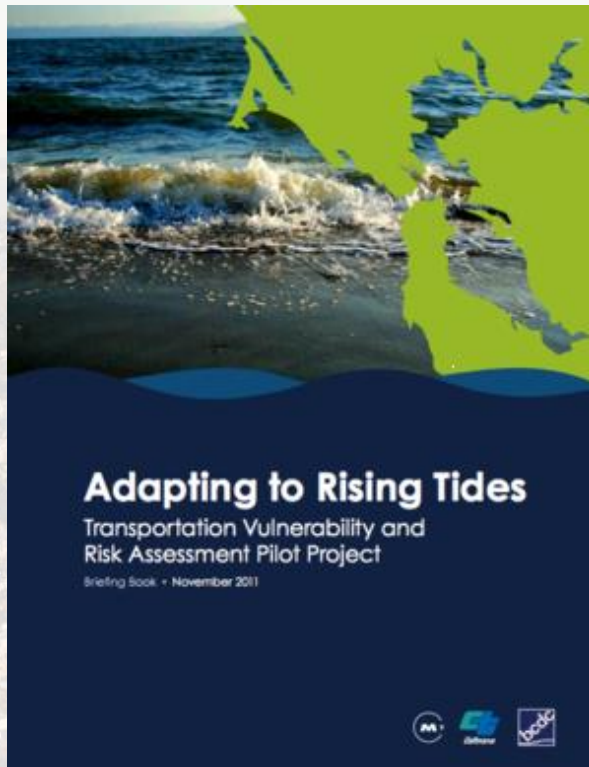
Key Governance Questions

- What is a regional resilience plan?
- Who develops the plan?
- How does it fit with existing regional planning processes?
- What additional authority is needed?
- What additional resources are needed?

Sea Level Rise & Priority Development Areas in San Francisco Bay Area



Key Projects to Accelerate Progress



RESILIENT
BAY AREA CHALLENGE **BY**
DESIGN

ART Bay Area

Regional Vulnerability Assessment & Strategy Development for:

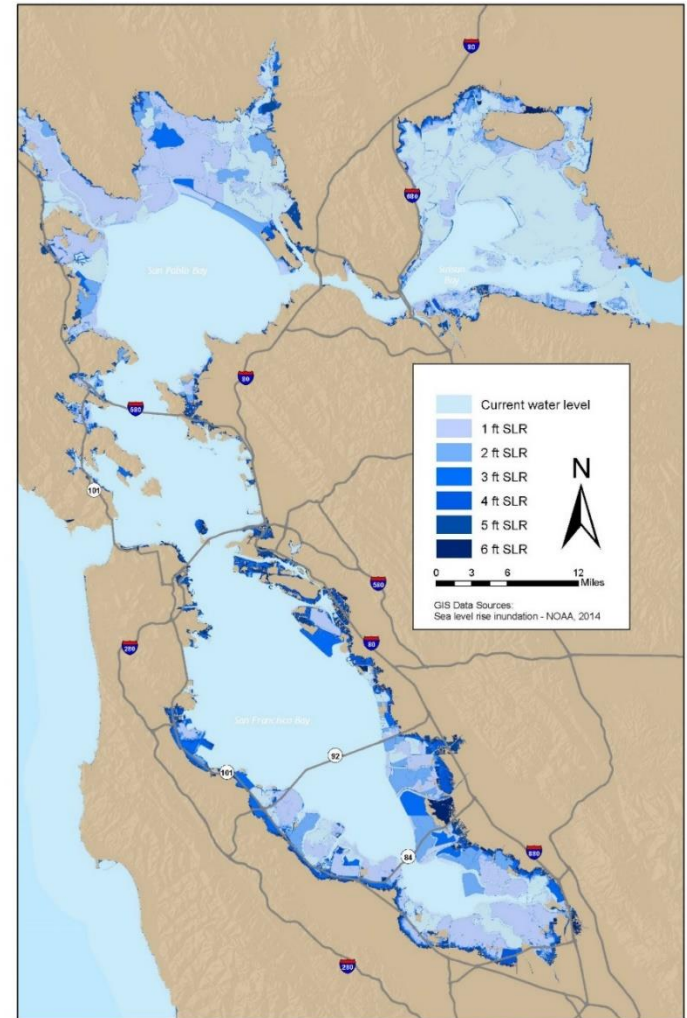
- Transportation System
- Priority Development Areas (PDAs)
- Priority Conservation Areas (PCAs)
- Disadvantaged Communities

Next Regional Working Group Meeting

- November 8th, 1pm to 4pm *The SamTrans Auditorium in San Carlos (SamTrans, 1250 San Carlos Ave, San Carlos)*
- Applying for additional SB1 Funding



Regional Inundation Extents 0 - 6 Feet Sea Level Rise



Project Management Team:

Bay Conservation and Development Commission's Adapting to Rising Tides Program team (BCDC ART), Bay Area Regional Collaborative (BARC), Metropolitan Transportation Commission and Caltrans

Consultant Team:

Natural Capital (NatCap), AECOM

Regional Working Group:

Issue, asset, geographic and community experts and stakeholders who provide guidance, input and contribute to collaborative decision-making throughout the process

The preliminary goals and objectives of ART Bay Area include:

- Increase the resilience of the Bay Area's transportation system
- Improve the safety and sustainability of our communities, particularly our most vulnerable and disadvantaged communities
- Develop an adaptation planning framework for future efforts
- Increase public outreach, participation and engagement



Networked Infrastructure

- Shoreline Protection
- Transportation
- Utilities

Regionally Significant Assets

- Airports and Seaports
- Refineries and Pipelines
- Baylands

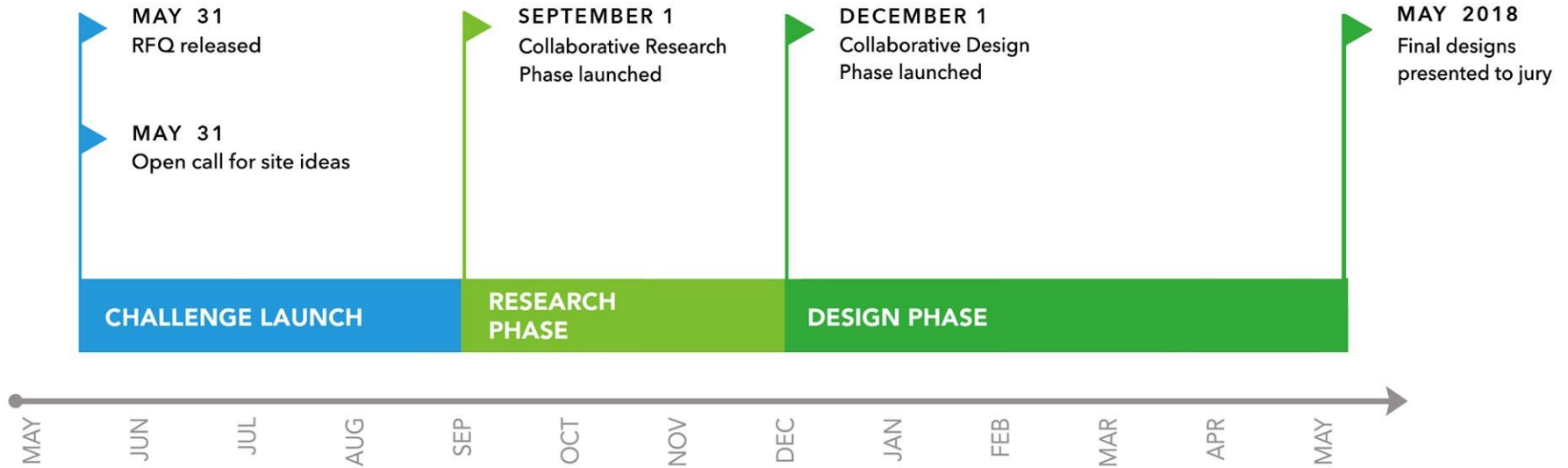
Local Vulnerabilities = Regional Consequences

- Tidal Creeks and Channels
- Shoreline Protection

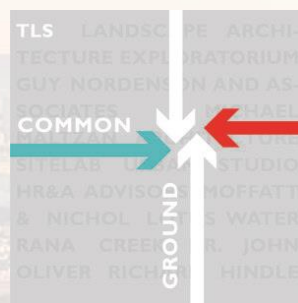
Communities with characteristics that place them at greater risk, e.g., low income, renters, transit dependent, elderly



Project Timeline



Winning Teams



www.resilientbayarea.org



Collaborative Research Phase Timeline

September 11-15: Tours of East Bay, *Alameda and Contra Costa Counties* (completed)

October 2-6: Tours of North Bay, *Marin, Napa, Sonoma and Solano Counties* (completed)

October 16-20: Tours of South Bay, *Santa Clara and San Mateo Counties*

November 1: Tour of San Francisco

November 2: Finance Workshop

November 2-3: Design Critique – Teams present some initial ideas

November 15: Presentation of Design Opportunities by Teams

THANK YOU!

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AGENDA: 7

Bay Area Air Quality Management District
Executive Committee Meeting

Records Management System Procurement and Implementation

October 16, 2017

John Chiladakis
Director of Information Services



Air District Records Management

- Air District has historically archived records in accordance to business and regulatory requirements
- On November 11, 2015, the Board of Directors adopted a Records Retention Schedule
- As part of the move to Beale Street, many archival paper records were consolidated in the Air District's Richmond office



Richmond Records Storage



- 1200 boxes of records stored in Richmond were inventoried and the contents validated
- Many of the boxes contained non-records or paper records that have already been scanned
- Many have been kept for longer than required in the adopted retention schedule



Digital Storage

- Over 1 Terabyte of email
- More than 300 GigaBytes of shared files
- More than 1 million documents in obsolete Legacy systems



Current Challenges

- Multiple Platforms
 - Current systems work but were developed over time and require significant management
- New records retention schedule
 - Board adopted guidelines which require complex document management and tracking
- Record archive is growing rapidly

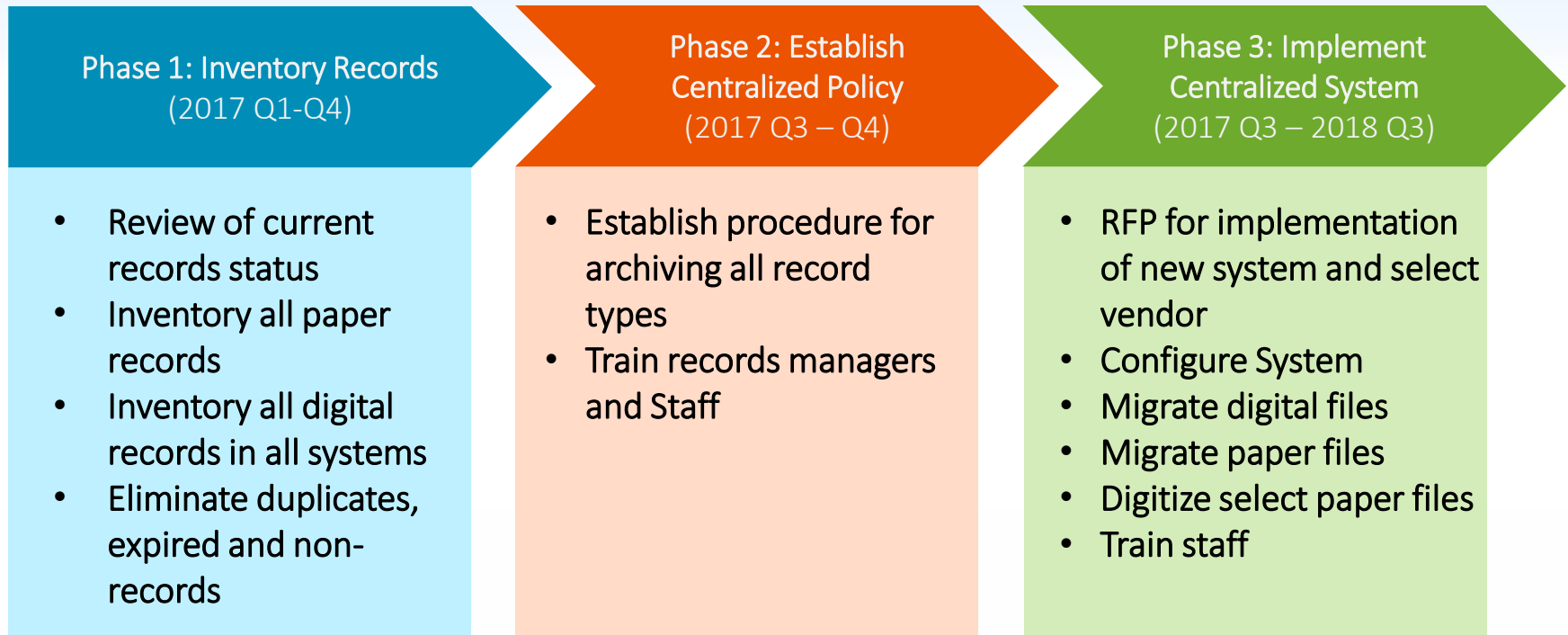


Approach to Challenges

- Doculabs, Inc. provided the following recommendations:
 - Inventory all records archives and eliminate duplicates where possible
 - Establish consistent policy to centralize the records archive process across the District's divisions
 - Implement a modern Centralized Records Management System (CRMS) that will track, allow search and manage lifecycle for all record archives



Records Management Activities





Request for Proposal for Centralized Records Management System

Step 1: Receive and score proposals

Step 2: Interview top scoring vendors and score results

Step 3: Invite top vendors to execute a proof of concept and score the results



Step 1 - Score Proposals

Vendor	Consulting Services (20 max)	Software Functional Requirements (20 max)	Technical Requirements (20 max)	Vendor Requirements (18 max)	Firm's Specialty Focus Area (2 max)	Cost (20 max)	Total (100 max)
Konica Minolta	16	18	18	15	0	15	81
Xerox	18	17	17	16	1	13	81
ECS Imaging	16	16	17	16	0	16	81
File Trail	18	17	18	15	1	9	77
Feith Systems	14	15	15	14	0	14	71
Stellar Services	16	15	14	12	1	11	69
Complete Paperless	12	16	16	12	0	12	68
General Networks	17	15	13	14	0	12	68
ForeFront	13	14	14	14	0	10	64
ShareSquare	11	13	13	12	1	14	63



Step 2 – Score Vendor Interviews

Vendor	Consulting Services (20 max)	Software Functional Requirement (20 max)	Technical Requirements (20 max)	Vendor Requirements (18 max)	Firm's Specialty Focus Area (2 max)	Cost (20 max)	Total (100 max)
ECS Imaging	18	18.0	18.7	16.7	0	19.0	90.4
Xerox	18	18.7	18.7	15.0	1	18.3	89.7
File Trail	16	17.0	17.7	15.3	1	13.0	80.0



Step 3 – Score Vendor Proof of Concept

Vendor	Scalability and Feature Usability (20 max)	Ease of Set-Up (16 max)	Ease of Use (16 max)	Incorporating Paper Files (16 max)	Migration of Digital Files (16 max)	Cost (16 max)	Total (100 max)
Xerox	19.3	14.7	15	15	14.7	11.7	90.4
ECS Imaging	14.7	13.3	13.3	11.3	15.3	15.3	83.3



Recommendation

Consider recommending the Board of Directors to:

Authorize the Executive Officer/APCO to execute a contract with Xerox, Inc. in an amount not to exceed \$650,000 for a Records Management System.