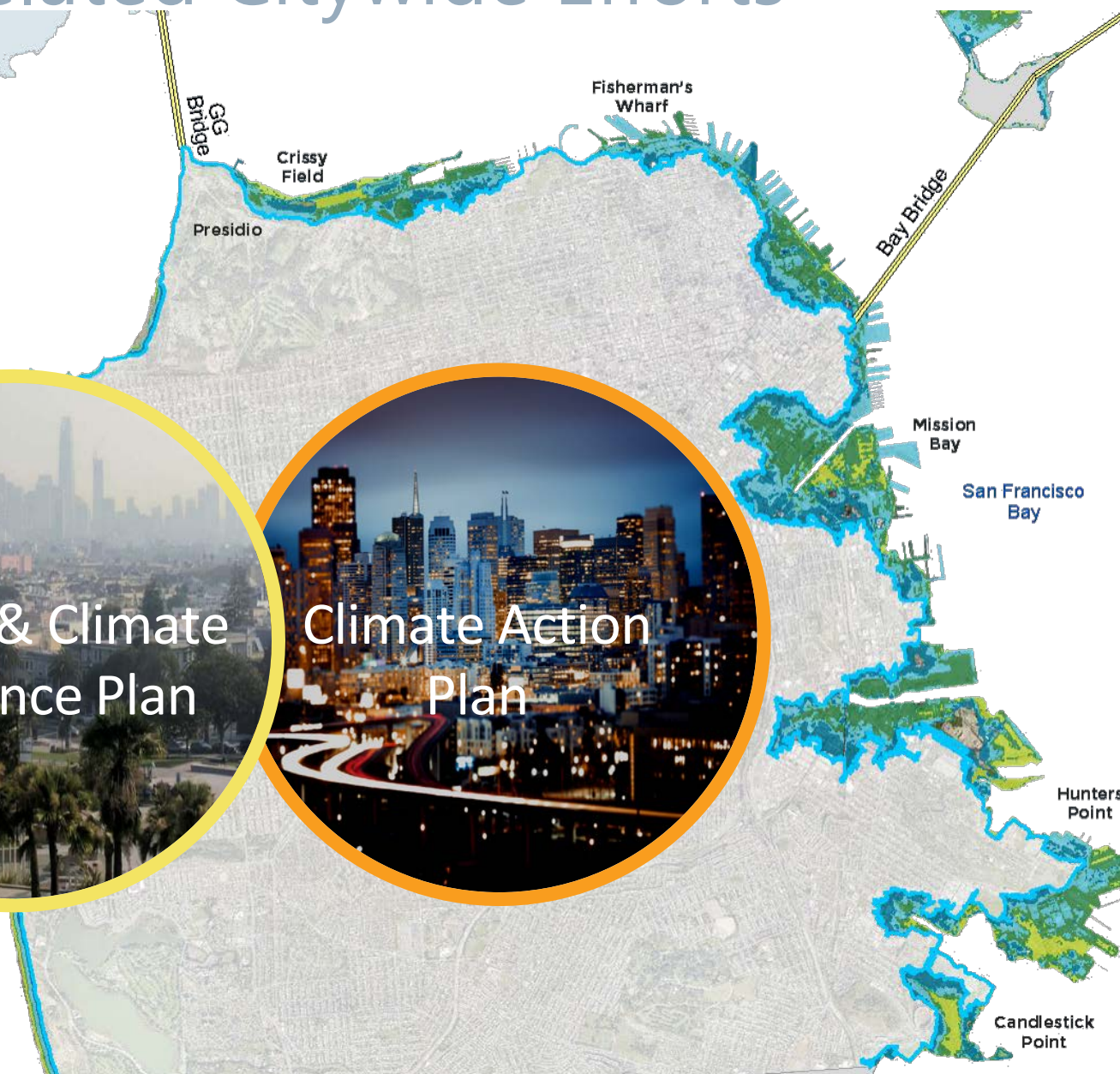


Hazards and Climate Resilience Plan

Melissa Higbee, Office of Resilience and Capital Planning
Capital Planning Committee
November 30, 2020

Related Citywide Efforts



Hazard & Climate
Resilience Plan

Climate Action
Plan

Sea Level Rise
Action Plan &
V/C Analysis

Why the HCR Matters

- Makes hazard information more accessible
- Provides a roadmap to improve resilience that captures previous and ongoing mitigation and adaptation efforts
- Identifies projects for strategic funding
- Focus on vulnerable communities, equity, and health
- Extensive department and stakeholder engagement



Meets Federal, State, and Local Requirements

- **Federal:** Assures eligibility for FEMA disaster mitigation grants, and can reduce local cost share for Public Assistance
- **State:** Adheres to climate vulnerability assessment and adaptation planning
- **Local:** Climate adaptation component of Climate Action Plan

FEMA Comments

*Approved by FEMA
on July 21, 2020*



- "Excellent cross-cutting integration of the HMP, climate adaptation and community safety element."
- "Stakeholder engagement was incredibly thorough and well thought out."
- "Comprehensive set of mitigation actions in this plan shows a great commitment to risk reduction."
- "Clear maps...very useful for sharing information about hazards in the community"

Core Agencies and Planning Principles



San Francisco
Department of Public Health

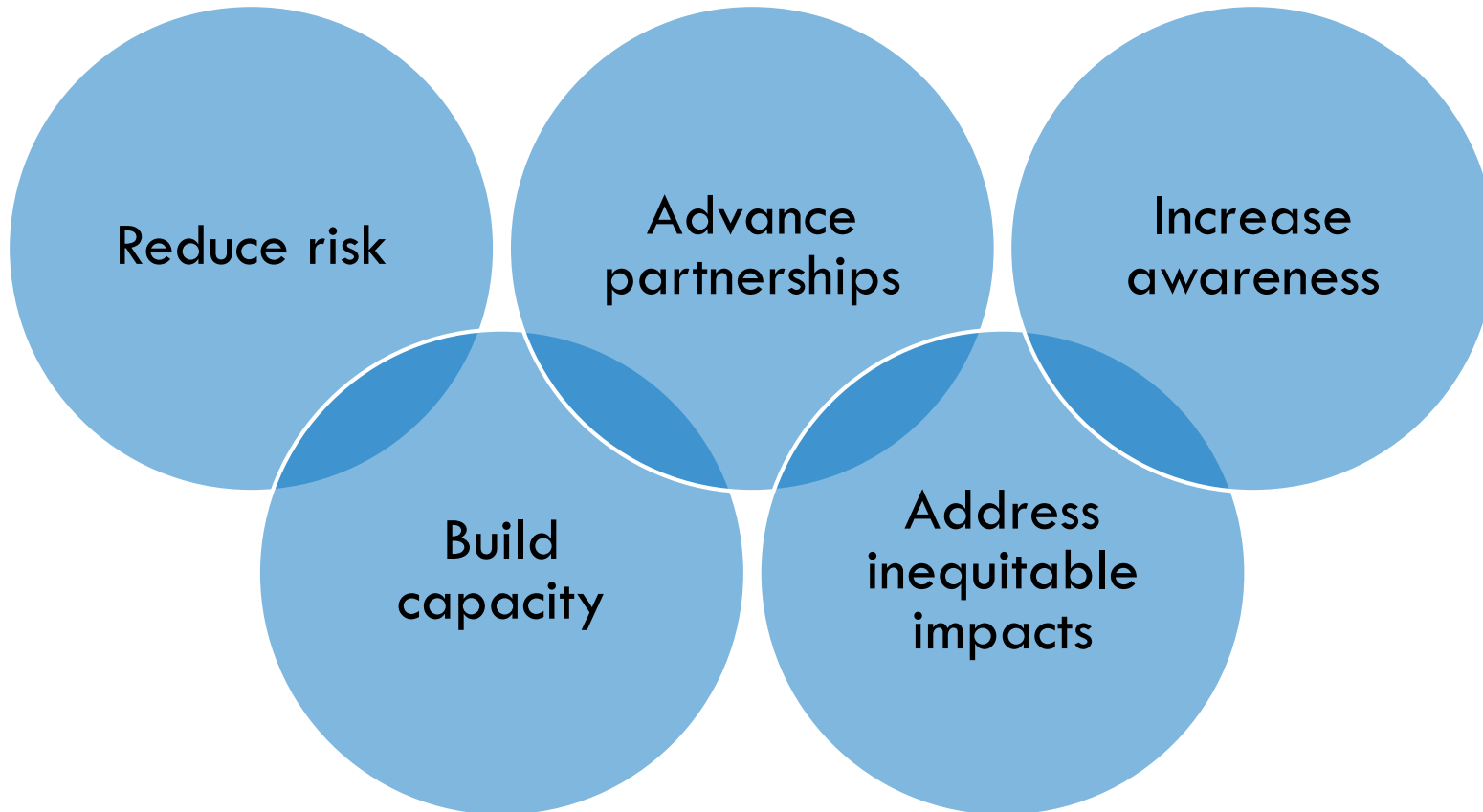
San Francisco
Planning



ONESF
Building Our Future

- Equity and Health
- Community Cohesion
- Affordability and Economic Vitality
- Climate Mitigation
- Biodiversity & Connection to Nature
- Science-Grounded Innovation
- Good Governance

Goals & Contents

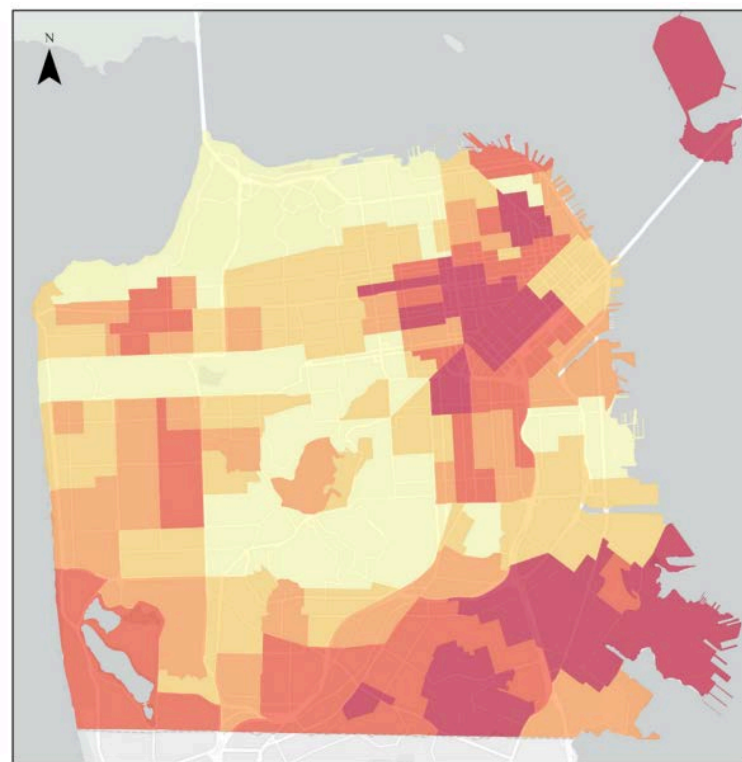


Chapters

1. Introduction
2. Planning Process
3. Risk Landscape
4. Hazard Analysis
5. Vulnerability & Consequences
6. Capabilities
7. Strategy
8. Plan Maintenance

Hazards Analysis

Climate change analysis
incorporated into relevant
hazards



0 0.5 1 2
Miles

Vulnerable Populations
Extreme Heat Health Vulnerability

Some Health Impacts

Most Health Impacts

Sample map















Earthquake	Tsunami	Landslide	Dam or Reservoir Failure	Flooding	High Wind	Extreme Heat	Drought	Large Urban Fire	Wildfire	Poor Air Quality	Pandemic	Hazardous Materials
Geological				Weather-Related				Combustion-Related			Biological & Toxic	

Over 95 Strategies To Mitigate Risks

DOMAIN: RESILIENT COMMUNITIES (C)

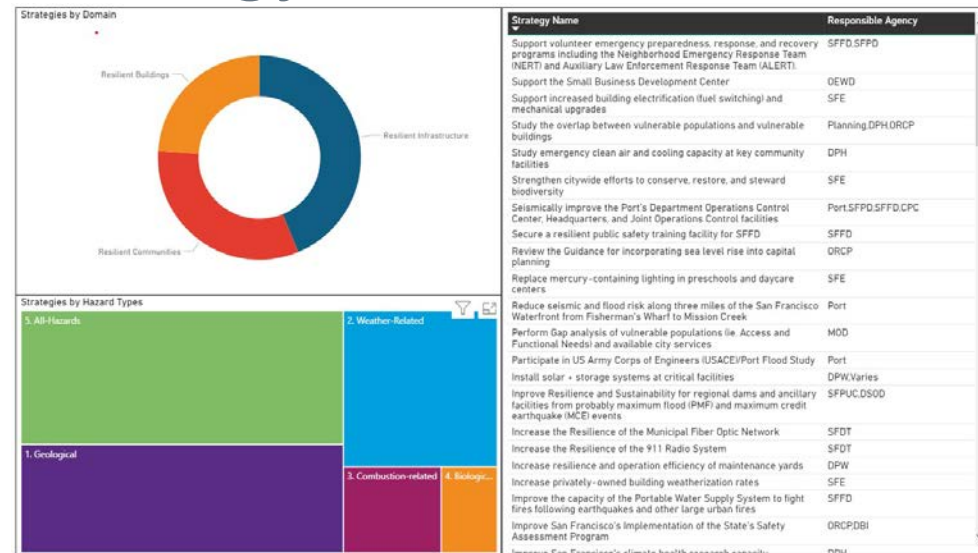
Primary Hazard Group: All Hazards

Sample Strategy

C-5.15 Study the overlap between vulnerable populations and vulnerable buildings		
KEY PLANNING ISSUES: Housing, Existing Building		VULNERABILITY ADDRESSED: Private buildings (residential, commercial and industrial) are not designed to accommodate flooding, future heat impacts, poor air quality, and other natural and climate hazards. Vulnerable populations are disproportionately impacted by climate and other natural hazards and have fewer resources to make climate resilient home and business improvements.
LEAD: Planning/ DPH/ORCP PARTNERS: DBI, SFPUC, SFE, MOHCD,	STRATEGY SUMMARY: Study the overlap between vulnerable populations and vulnerable building types for natural and climate hazards. This will help identify property types and locations that may be particularly vulnerable (such as permanent affordable housing, SRO's, etc.) to hazards and may need public subsidy or technical support to equitably pursue resilience measures. Public engagement efforts to date have identified specific vulnerabilities to consider, from San Franciscans who rely on electricity for their medical needs, to inaccessible routes of emergency evacuation.	
COST: Low: \$0-500K	SF GOVERNMENT ACTIVITY: Research, Planning & Guidance	STATUS: New
             		

Additional resources @ OneSF.org

Strategy Dashboard

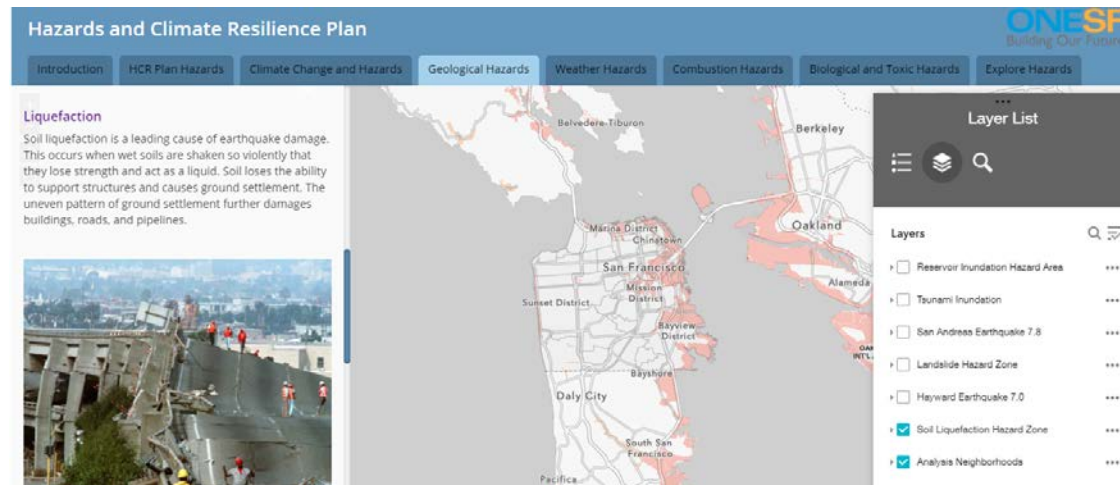


Summary Report

Coming soon



Storymap



Next Steps

- Annual progress reporting
 - Reporting form out to departments in February 2020
- Implementation
 - Integration in 10-Year Capital Plan update, Safety Element update, Capital Budget requests
 - Hazard Mitigation Grant Program funding opportunities
- Continued stakeholder engagement



Thanks!

Any questions?

You can find us at:

[https://onesanfrancisco.org/hazard/
overview](https://onesanfrancisco.org/hazard/overview)

Melissa.Higbee@sfgov.org

