Hazards and Climate Resilience Plan

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Why the HCR Matters

- > Makes hazard information more accessible
- Science/data-driven approach with extensive department and stakeholder engagement
- Provides a roadmap to improve resilience that captures previous and ongoing mitigation and adaptation efforts
- > Identifies projects for strategic funding
- > Focus on vulnerable communities and equity





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

- "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

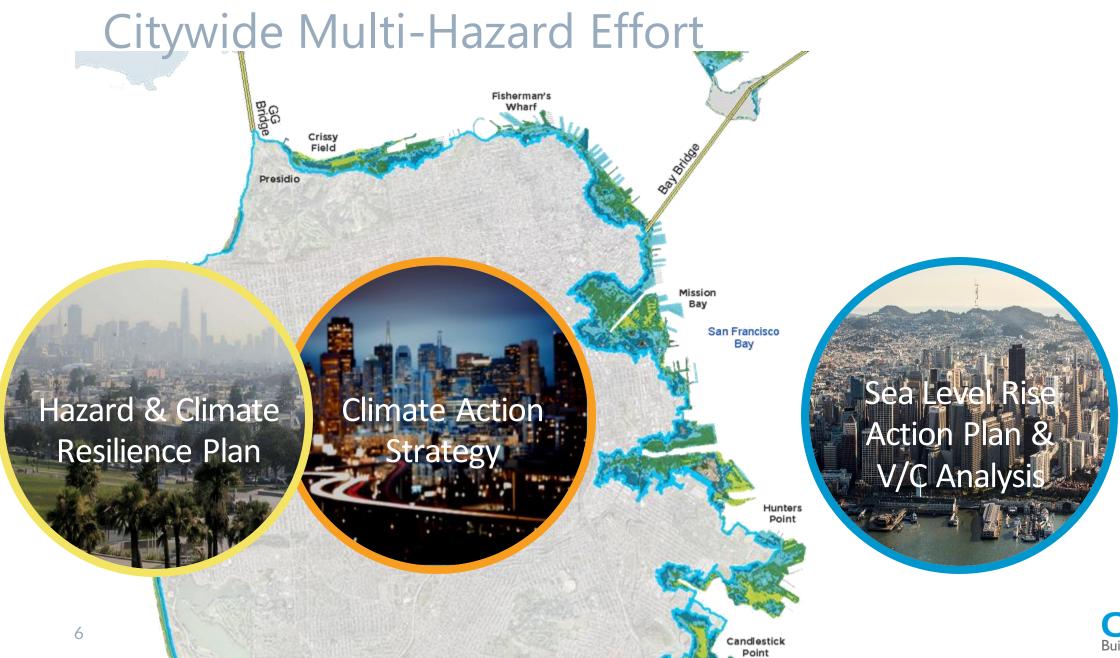




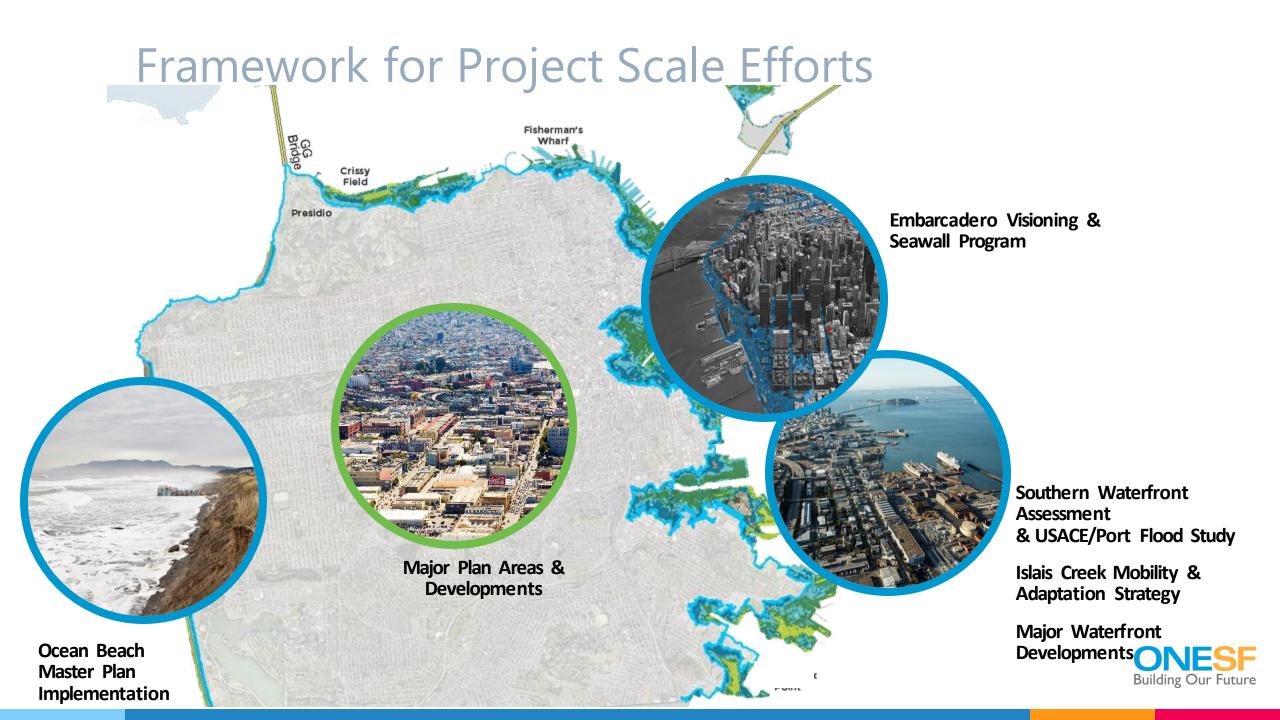
- > Equity and Health
- Community Cohesion
- Affordability and Economic Vitality
- Climate Mitigation
- Biodiversity & Connection to Nature
- Science-Grounded Innovation
- Good Governance











Scope and Timeline

Assessment

April '18 to Jan '19

- Hazard profiles
- Asset inventory
- Vulnerability and consequence profiles
- Existing actions and capabilities

Strategy

Feb '19 to May '19

- Draft goals
- Strategy development
- Evaluation and improvement

Drafting + Review

Jun '19 to Dec '19

- Draft document
- Internal City review
- Draft for public comment
- Draft for CalOES/FEMA approval

Approvals

Jan '20 to June '20

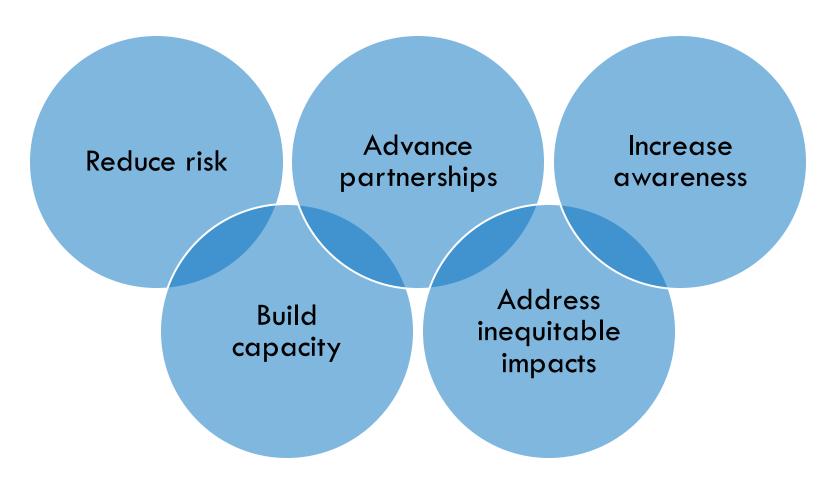
- FEMA approval pending local adoption
- Local adoption by BOS and Mayor
- Final FEMA approval



Public Engagement



Goals & Contents



Chapters

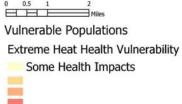
- 1. Introduction
- 2. Planning Process
- 3. Risk Landscape
- 4. Hazard Analysis
- 5. Vulnerability & Consequences
- 6. Capabilities
- 7. Strategy
- 8. Plan Maintenance



Hazards Analysis

Climate change analysis incorporated into relevant hazards

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



Most Health Impacts

Sample map



Asset Inventory



People



Emergency Response



Housing



Business & Industry



Public & Community Services



Transportation



Utilities & Infrastructure

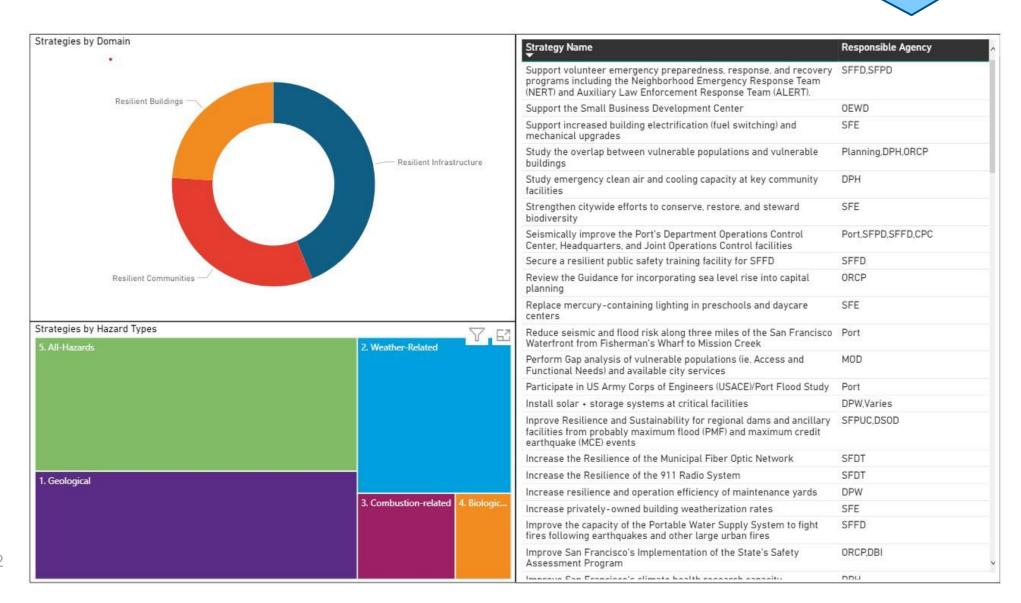


Parks & Open Space



Over 95 Strategies To Mitigate Risks

Searchable dashboard at onesanfrancisco.org





Sample Strategy

DOMAIN: RESILIENT COMMUNITIES (C)

Primary Hazard Group: All Hazards

C-5.15	Study the overlap between vulnerable populations and vulnerable buildings								
KEY PLANNING ISSUES:		VULNERABILITY ADDRESSED:							
Housing, Existing Building		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:	STRATEGY SUMMARY:								
Planning/ DPH/ORCP PARTNERS: DBI, SFPUC, SFE, MOHCD,	natural and o may be partic hazards and resilience me vulnerabilitie	verlap between vulnerable populations and vulnerable building types for climate hazards. This will help identify property types and locations that cularly vulnerable (such as permanent affordable housing, SRO's, etc.) to may need public subsidy or technical support to equitably pursue easures. Public engagement efforts to date have identified specific es to consider, from San Franciscans who rely on electricity for their ds, to inaccessible routes of emergency evacuation.							
COST:		SF GOVERNMENT ACTIVITY:	STATUS:						
Low: \$0-500K		Research, Planning & Guidance	New						



























Relationship to COVID-19

- > Health and equity criteria used for strategy evaluation
- Key strategy to learn from City's response to COVID-19 improve resilience to pandemics
- Key strategy to continue efforts to improve police and community relations
- > 31 strategies are related to COVID-19 efforts
- Majority of strategies are supported by General Fund
- Multi-hazard risk reduction as critical as ever, especially as people shelter-in-place



Next Steps

- > BOS adoption
- > FEMA final approval
- Continued public outreach
- > Annual reporting







Thanks!

Any questions?

You can find us at:

https://onesanfrancisco.org/hazard/ overview

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