



SAN FRANCISCO CLIMATE HEALTH PROGRAM



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POPULATION HEALTH DIVISION
SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

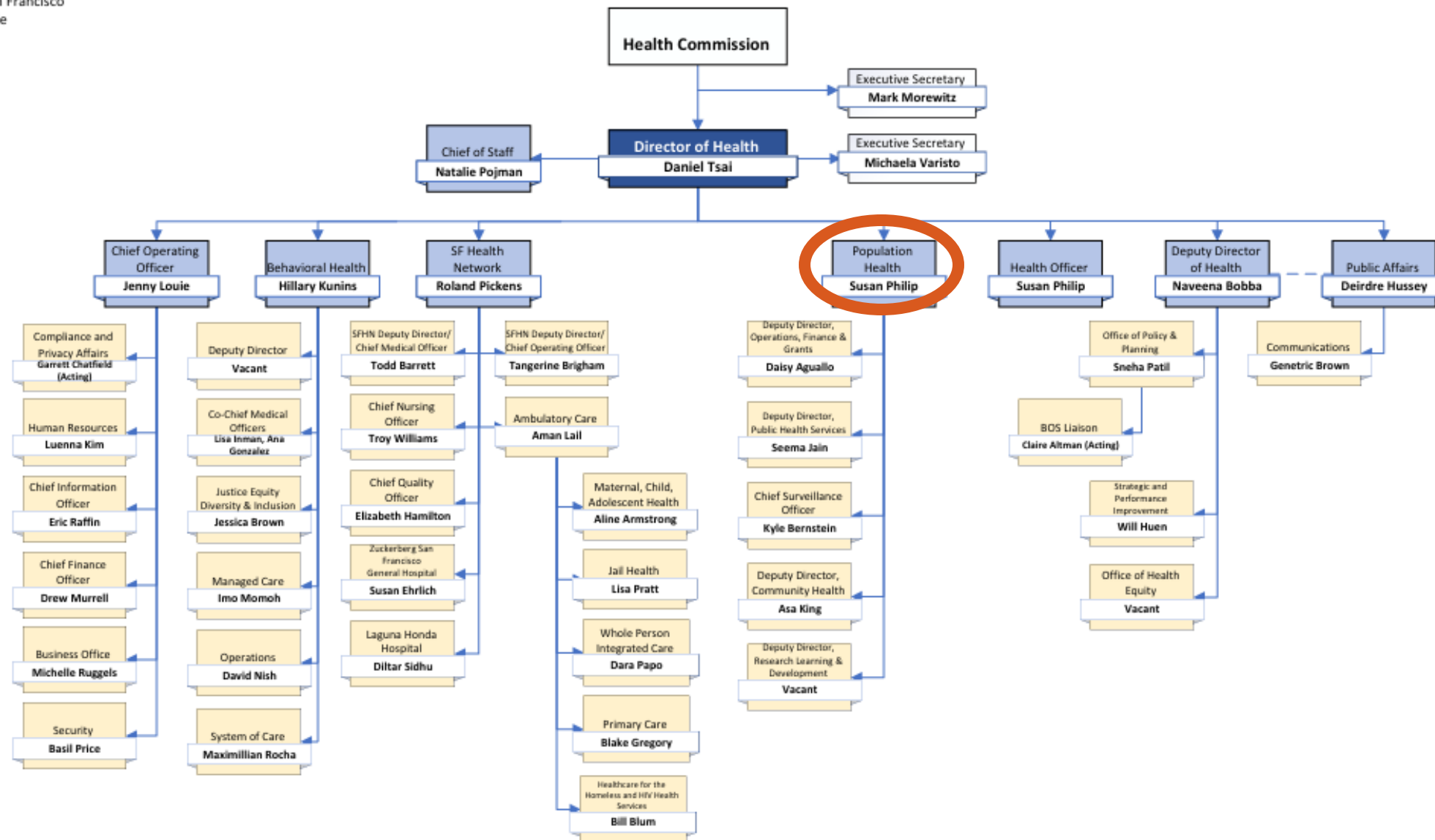
- Introduction to the Climate Health Program
- Example Project: Heat and Air Quality Resilience Project (HAQR)
 - Background
 - Description
 - Deliverables
- Next Steps for the Climate Health Program





City and County of San Francisco
Daniel L. Lurie
Mayor

San Francisco Department of Public Health
Daniel Tsai
Director of Health

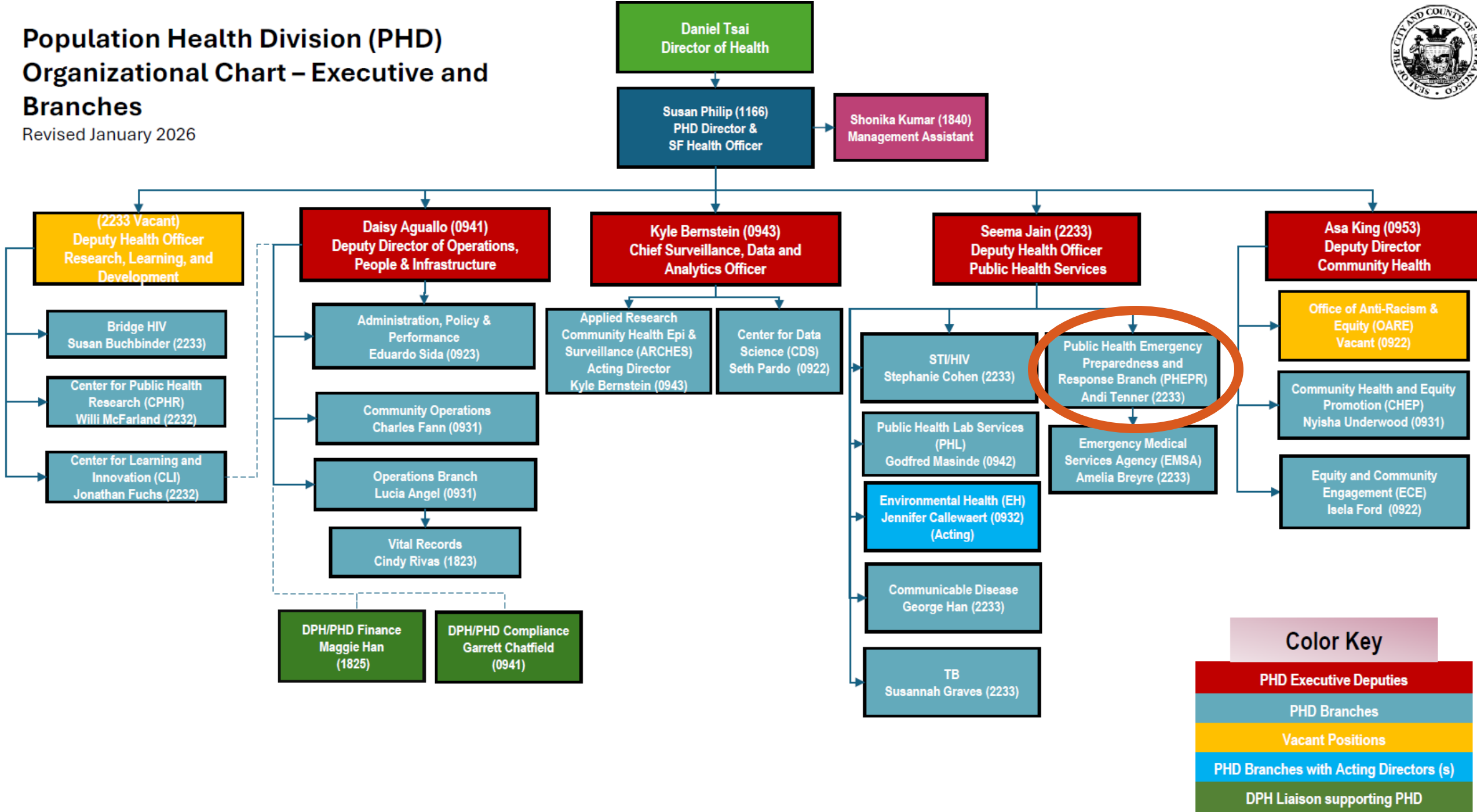




Population Health Division (PHD)

Organizational Chart – Executive and Branches

Revised January 2026



SFDPH Climate Health Program



Integrates **health equity**
into **Citywide** climate
mitigation and adaptation
programs



Adapts **SFDPH** programs
and services to current
and future **climate**
impacts



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Climate change is making severe weather events more frequent and more extreme

These events have significant, cascading, compounding impacts on public health

These health impacts are inequitable and driven by exposure, sensitivity, and adaptive capacity



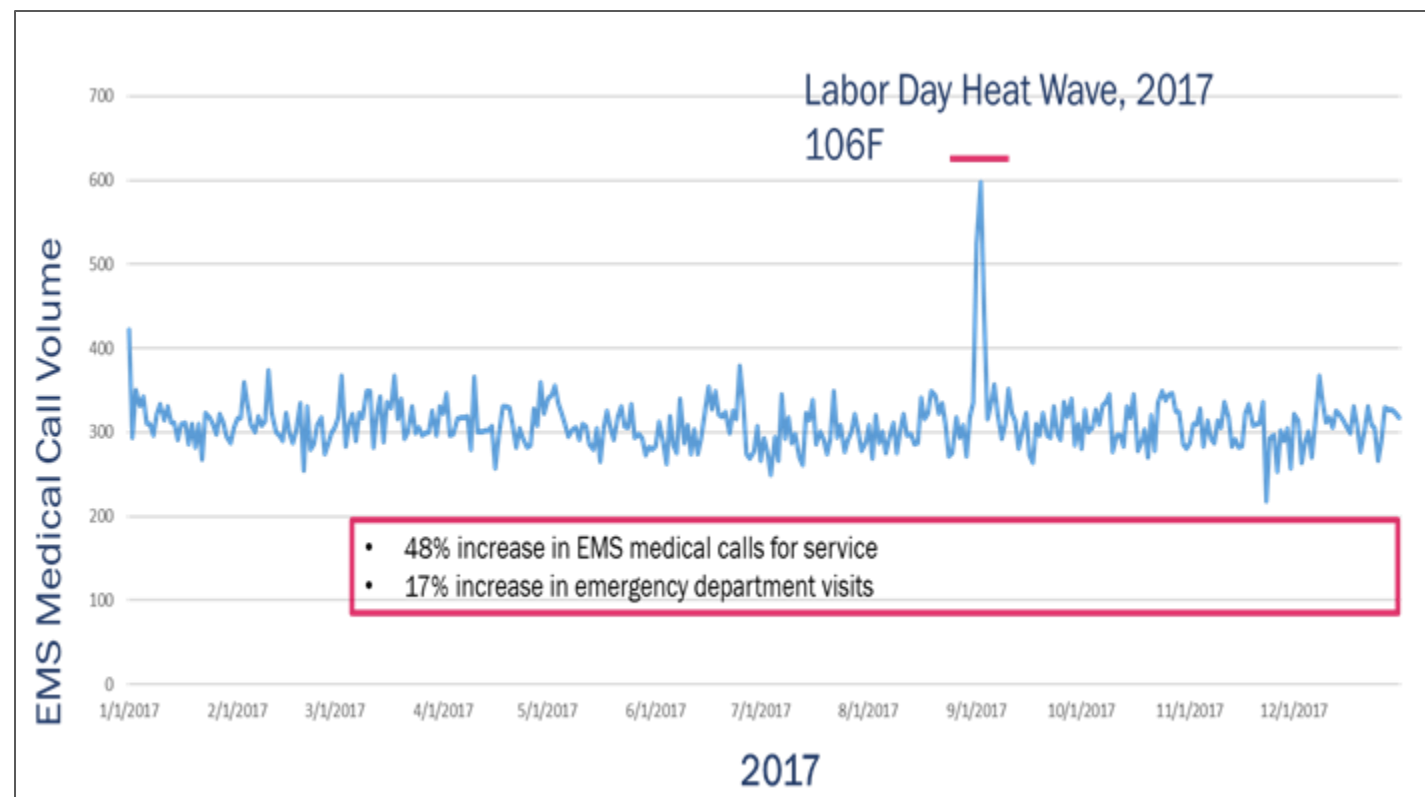


San Francisco is vulnerable to the health impact of extreme heat

The 2006 California Heat Wave

"ED visits for heat-related causes increased across the state...especially in the Central Coast region, which includes San Francisco." Knowlton, 2008

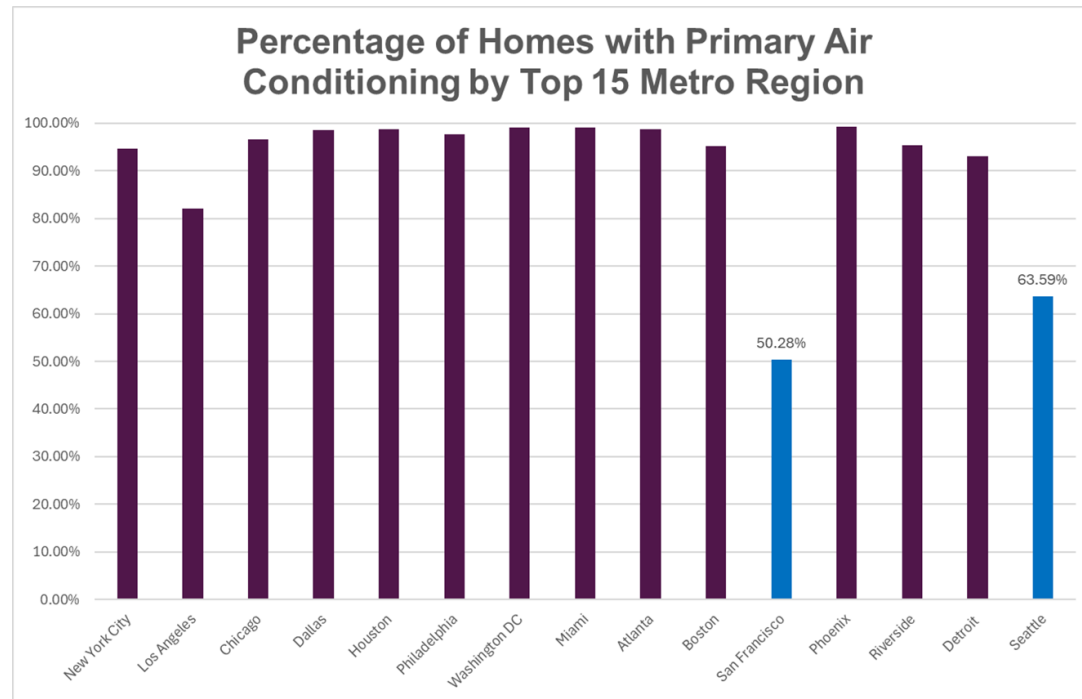
Surge in SF Emergency Calls During the 2017 Heat Wave



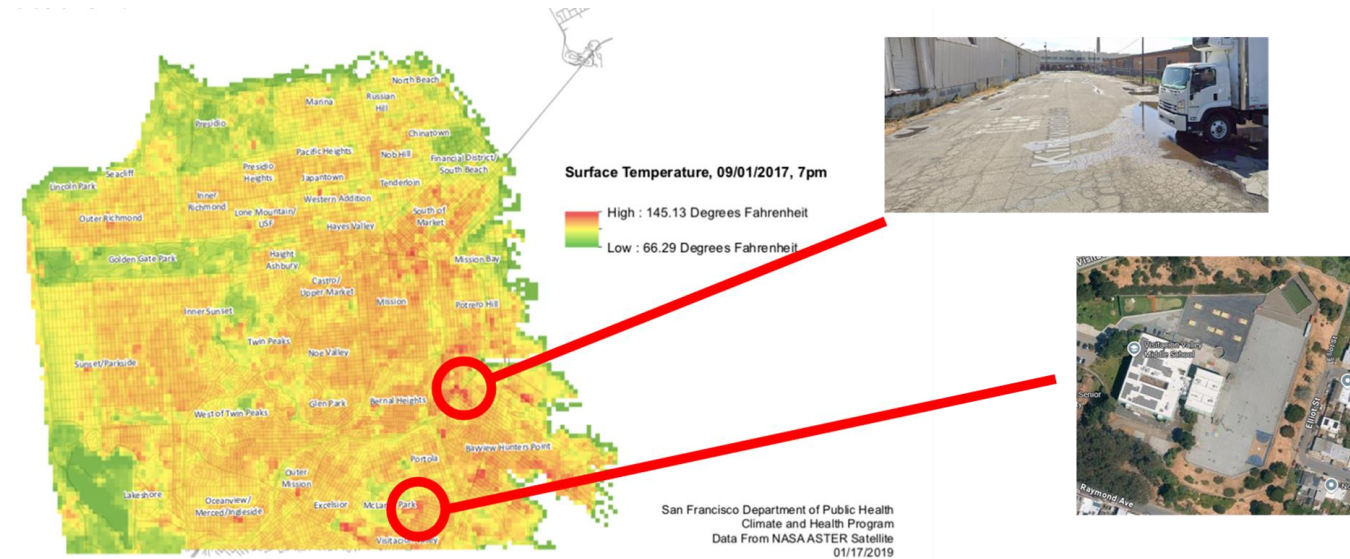


Drivers of Vulnerability

Unadapted Buildings



Urban Heat Islands



U.S. Census Bureau, "2023 Top 15 Metropolitan Areas, Heating, Air Conditioning, and Appliances, All Occupied Units" American Household Survey, Accessed May 5, 2025



HAQR Summary



San Francisco
Public Health

ONESF
Building Our Future



SAN FRANCISCO
ENVIRONMENT
DEPARTMENT

The **Heat and Air Quality Resilience Project (HAQR)** is a cross-sectoral initiative to get the public, private, community, and academic stakeholders together to identify, plan, and implement medium-to-long-term extreme heat and wildfire smoke resilience strategies to support short-term emergency response actions.

High-Level Objectives

1. Centralize extreme heat and air quality resilience planning to foster increased interdepartmental coordination and align objectives, share research, engage stakeholders, identify barriers, and discuss heat and air quality issues as they emerge.
2. Facilitate the technical implementation and evaluation of specific extreme heat and air quality strategies.



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HAQR All Hands Meetings

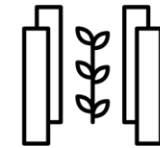
17 HAQR All-Hands Meetings (2021 – 2026)

- 100 City Partners representing 19 agencies
- 45 Community Partners representing 29 organizations
- 15 Academic partners representing 3 universities
- 20 Presentations

HAQR Implementation Plan (2023)



Buildings



Green Infrastructure



Emergency Preparedness



Community Readiness



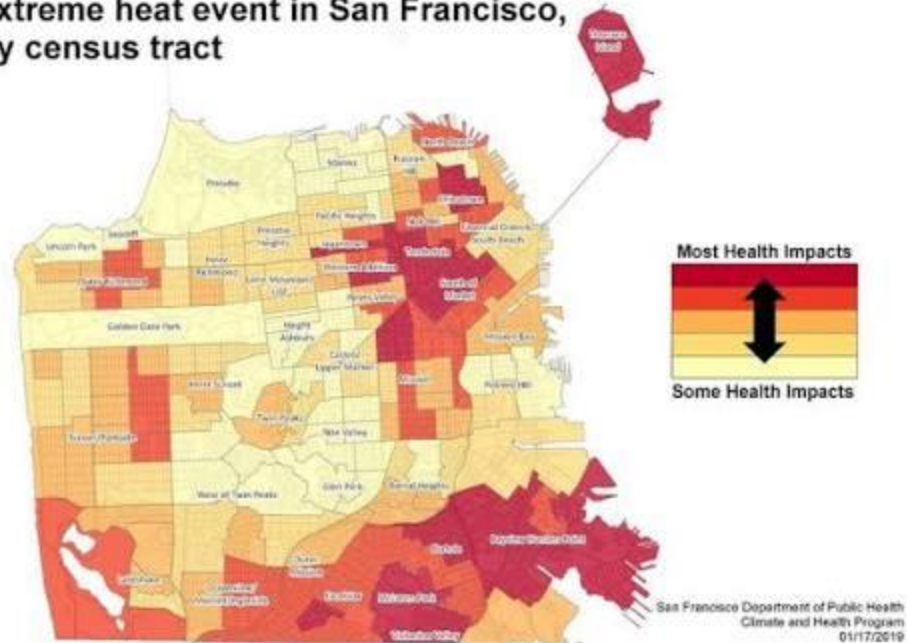


Completed HAQR Deliverables: Research and Data Analysis

Extreme Heat Vulnerability Assessment

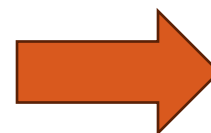
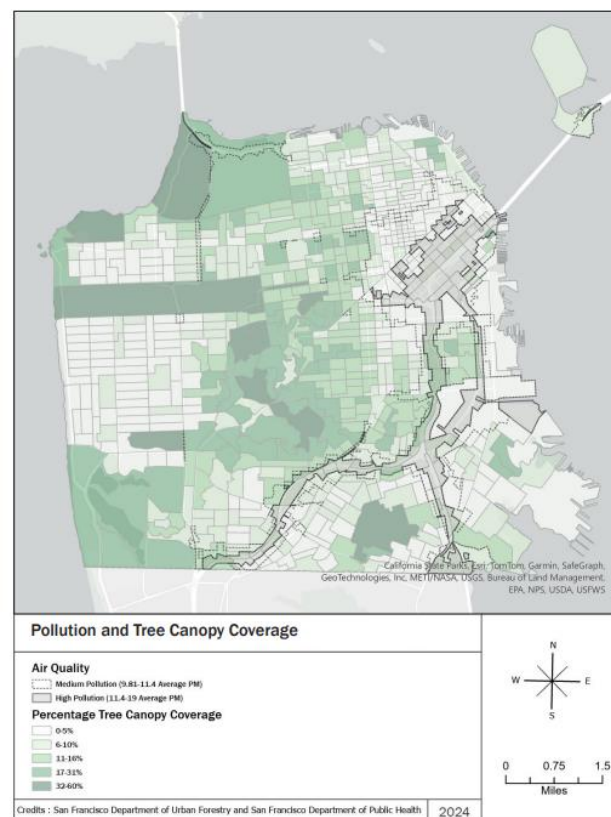
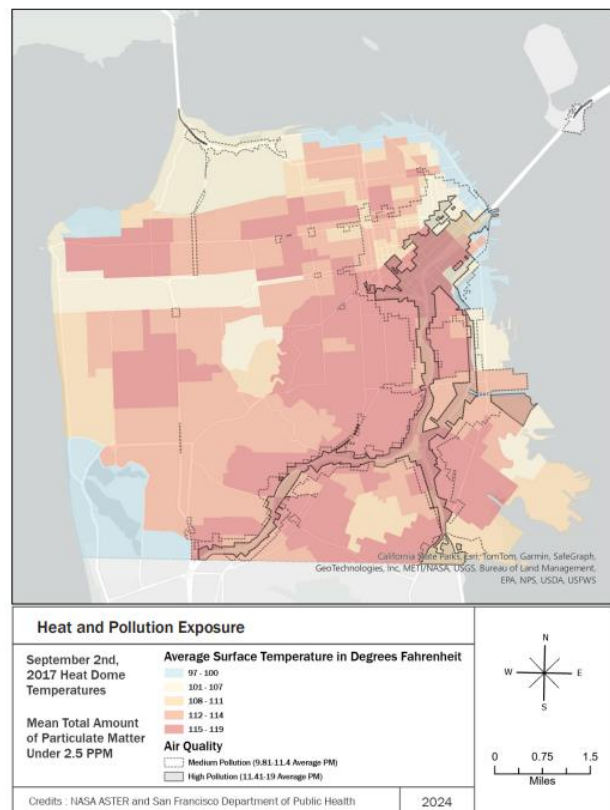
Supported UCSF PRISE Climate Survey Report

Predicted distribution of the health impacts of an extreme heat event in San Francisco, by census tract

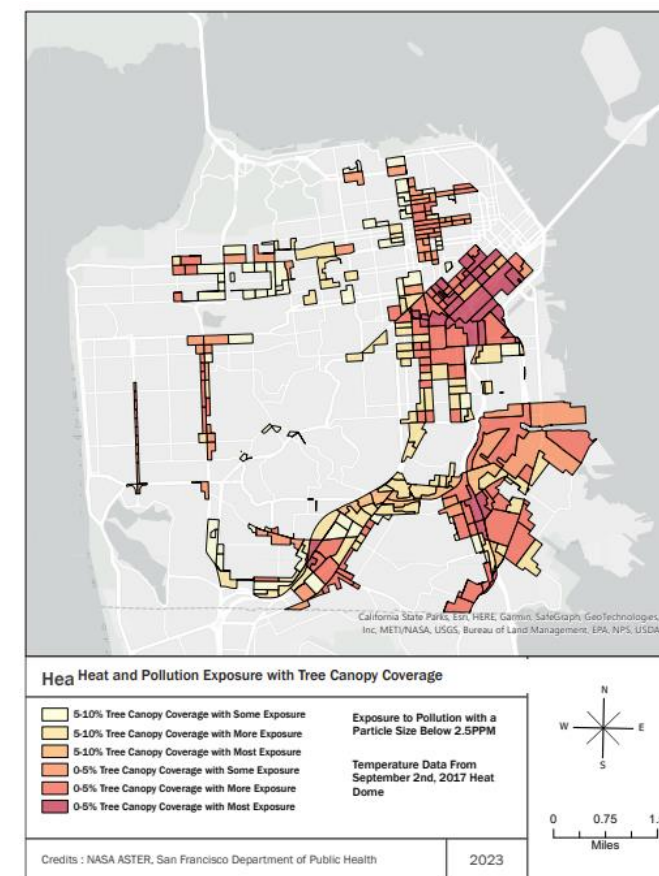




Completed HAQR Deliverables: Green Infrastructure Prioritization



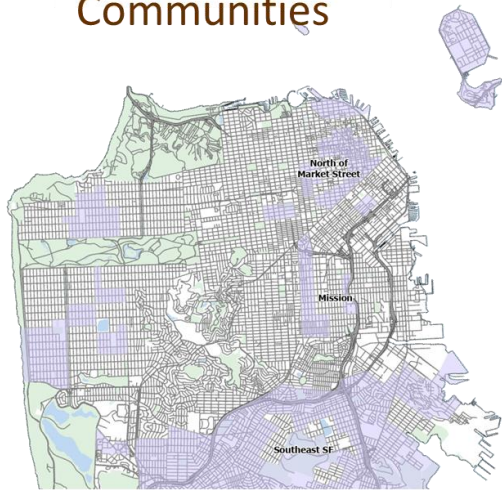
Priority Tree Plantings





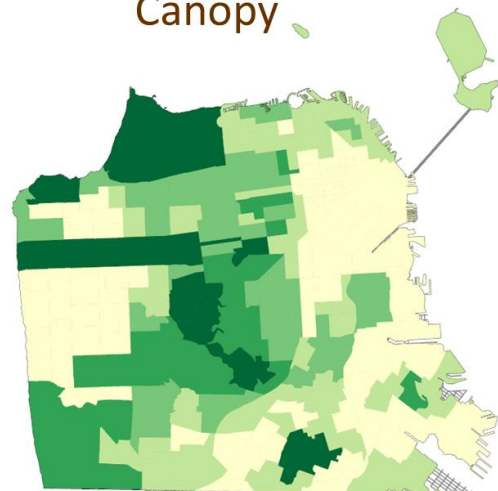
Completed HAQR Deliverables: Green Infrastructure Prioritization

Disadvantaged Communities



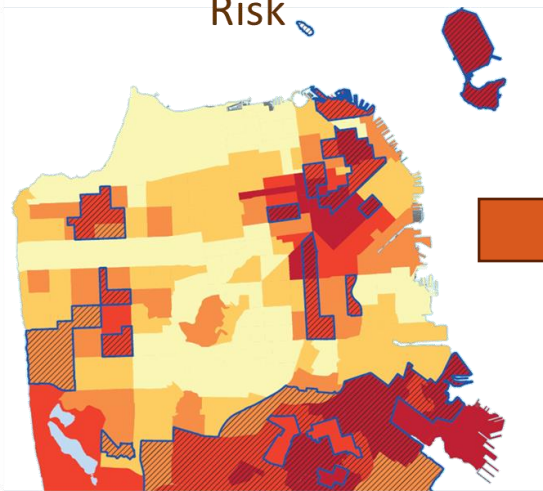
CJEST Federal Tool

Least Tree Canopy



US Forest Service

Highest Heat Risk



SF Dept of Public Health



Grant Applications

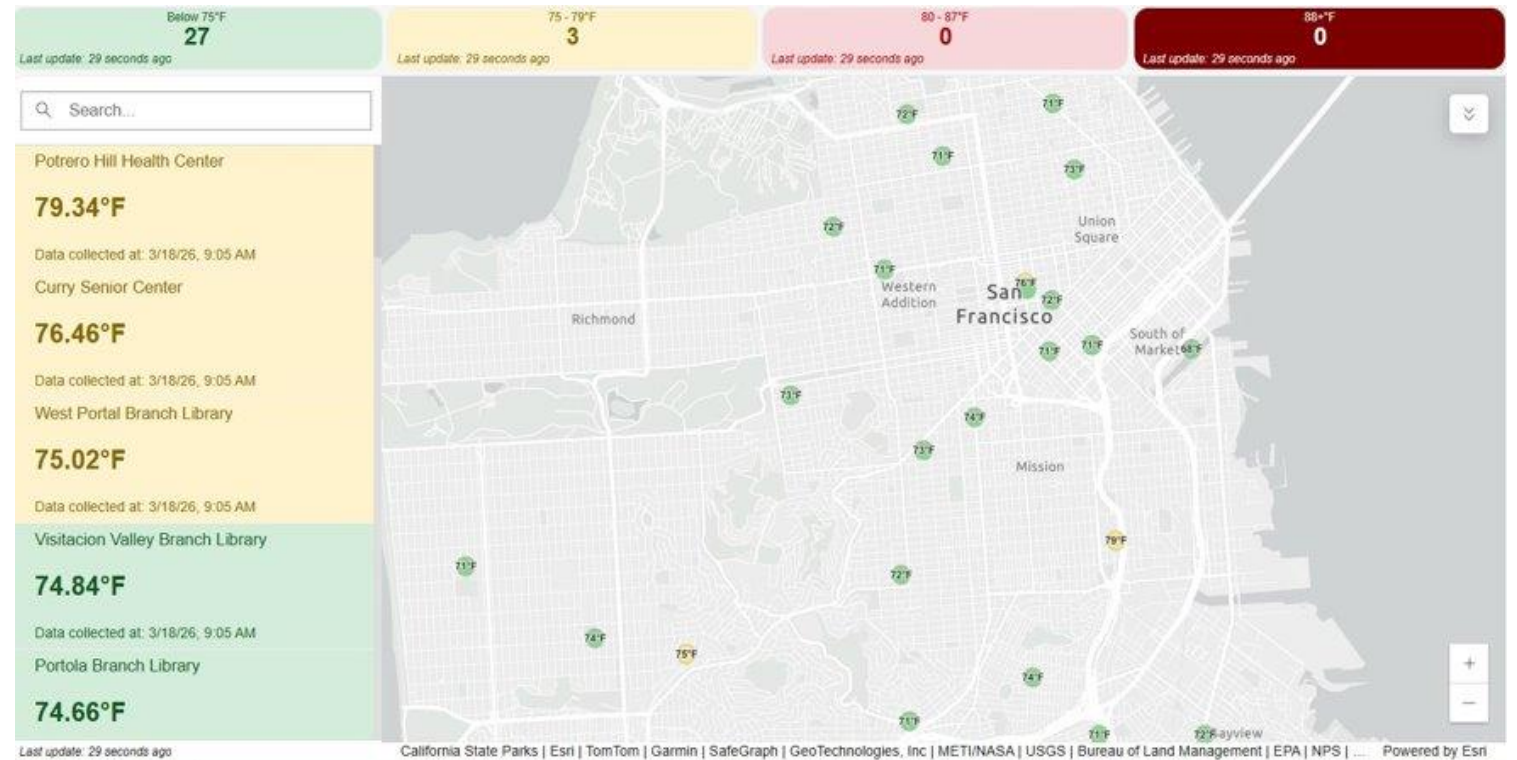




Completed HAQR Deliverables: Heat and Air Quality Sensors



AirVisual Pro from IQAir





Prop 4. Grant Applications *to integrate health into climate programs*

- Extreme Heat Community Resilience Program
- Community Resilience Center Program
- Transformative Climate Communities



Research, Data, and Analysis *to improve our ability to predict health impacts*

- Update the Heat Vulnerability Assessment
- Increase Heat/Air Sensor Coverage
- Add “Health Impacts of Flooding and Extreme Storms” Section to Climate Health SFGOV Website





THANK YOU!



Design by Mehroz Baig v. 2017-4-14



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