





Why Prepare a Community Risk Reduction Plan? GHG / Sustainable Communities Strategy



GREENHOUSE GAS / SUSTAINABLE COMMUNITIES LEGISLATION

AB 32 and SB 375 have led to a new era of regional planning focused on policy-driven outcomes rather than forecasts and funding allocations based on past trends.



REGIONAL EXPECTED GROWTH

- + 2.1 MILLION PEOPLE
- +660,000 HOUSING UNITS
- +1.1 MILLION JOBS



SAN FRANCISCO'S SHARE

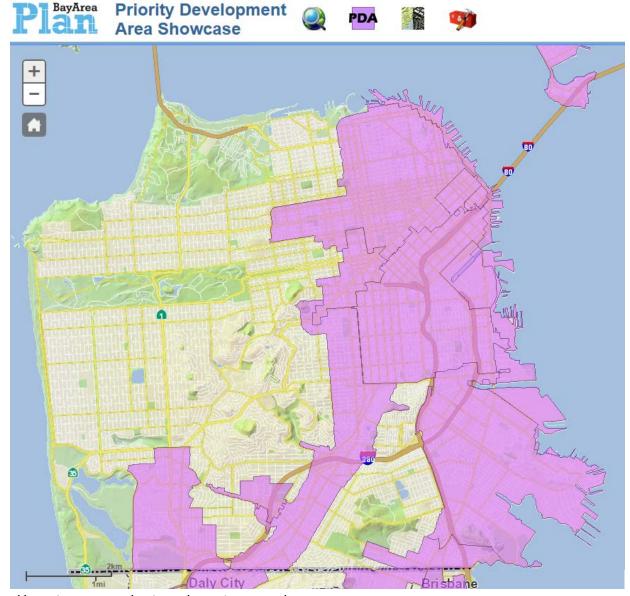
MAINTAIN 15%

share of regional growth

- **+92,000 HOUSING UNITS** (3,000/year)
- +190,000 JOBS (6,000/year)



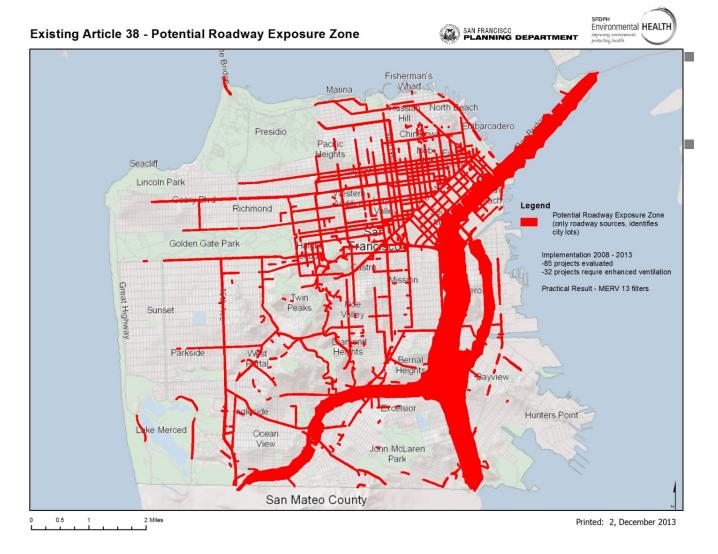
Where will this growth occur?





Source: ABAG, http://gis.abag.ca.gov/website/PDAShowcase/

Areas of Air Pollution Concern (2008-2012)



Health Code Article 38 (2008)

Grew out of
Eastern
Neighborhoods
Land Use Plans

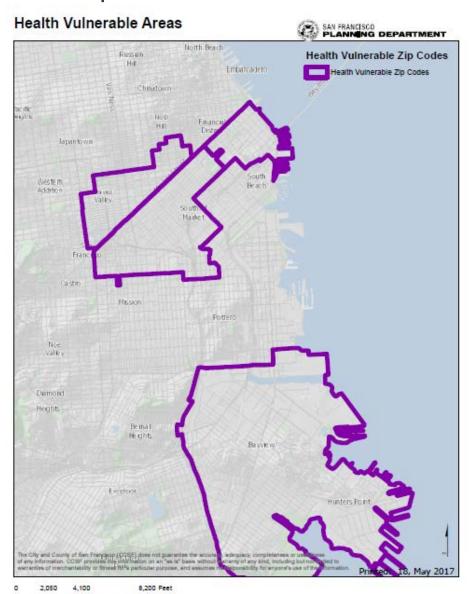
- > 10 units near high volume roadways
- EnhancedVentilation



Benefits of a Community Risk Reduction Plan



Comprehensive Communitywide Modeling & Air Pollutant Standards Development



Partnered with Air District & DPH to model most known air pollutant sources

Initial standards for areas where:

- Cancer risk at or above 100/million
- PM2.5 levels at or above 10 ug/m3

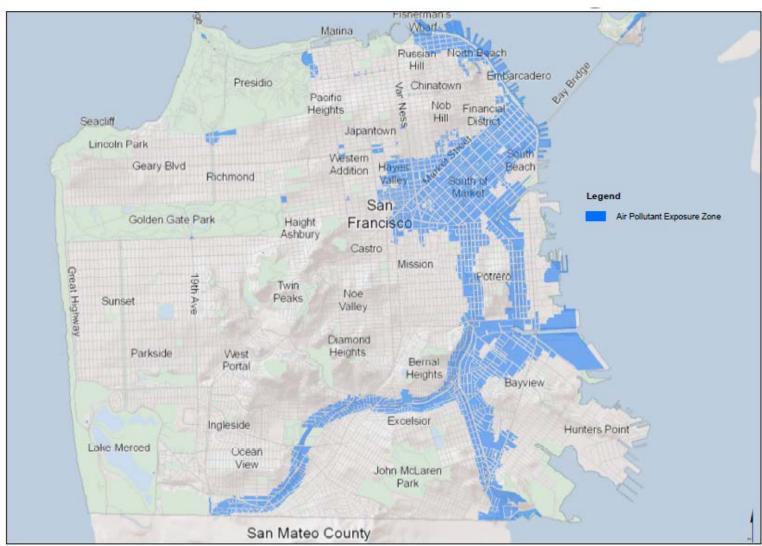
Standards based on public feedback

- Incorporated a health vulnerability layer where:
 - Cancer risk standard reduced to 90/million
 - PM2.5 standard reduced to 9.0 ug/m3
- Ensure that all parcels within 500 feet of major freeways were included.



Air Pollutant Exposure Zone







Near-term Actions: Updated & Modified Existing Regulations

- Updated Health Code Article 38
 - No project-specific modeling required
 - Applies now to all new sensitive uses the Air Pollutant Exposure Zone (APE)
 - Also applies to major renovations wit sensitive uses
 - Requires MERV-13 or equivalent ventilation
- Modified Clean Construction **Ordinance**
 - Applies only to City Projects in APE
 - Requires most construction equipment to be Tier 2 and equippe with Level 3 diesel particulate filter Tier 4 equipment)
 - Limits idling to 2 minutes

San Francisco CLEAN CONSTRUCTION ORDINANCE

Implementation Guide for San Francisco Public Projects







AUGUST 2015

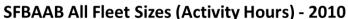


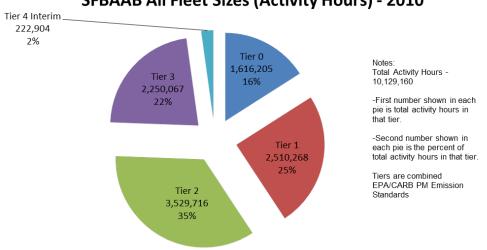
San Francisco Department of the Environment San Francisco Department of Public Health San Francisco Planning Department



Near-term Actions Continued: Identified Standard Mitigation Measures for Projects in APEZ

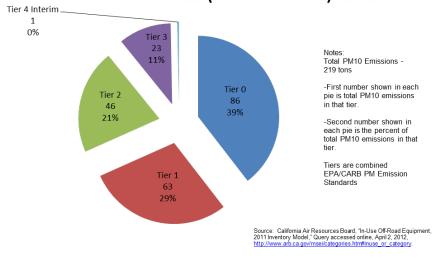
- Diesel backup generators required to be Tier 2 with a Level 3 diesel particulate filter or Tier 4
- Construction equipment must be Tier 2 with a Level 3 diesel particulate filter or Tier 4 & idling is limited to 2 minutes





Source: California Air Resources Board, "In-Use Off-Road Equipment, 2011 Inventory Model," Query accessed online, April 2, 2012, http://www.arb.ca.gov/msei/categories.htm#inuse_or_category.

SFBAAB All Fleet Sizes (PM10 Emissions) - 2010





2013 Draft Strategies

5

Gals

24

Actions some completed

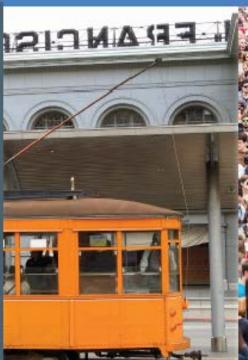
Strategy

Implementation & Monitoring Strategy

SAN FRANCISCO COMMUNITY RISK REDUCTION PLAN









Current Efforts

SAN FRANCISCO
COMMUNITY
RISK REDUCTION
PLAN

- Modeling Update
 - Address new & removed stationary sources
 - Verify adequacy of mobile source data
 - Update maritime source data
 - Update caltrain data
 - Community outreach for modeling
- Evaluate the air pollutant standards based on modeling results
- Investigate development of an Air Pollution Offset Mitigation Program
- Draft Plan for Public Review
 - Plan outreach
- Plan adoption & implementation
 - How can the CRRP streamline CEQA documents?



