

Improving safety and walking conditions in San Francisco

Pedestrian Activity & Safety

PSAC | April 12, 2011







Contents

- 1. Project Overview
- 2. Online Survey Results
- 3. Pedestrian Activity: Where walking is important
 - a) Revised criteria/scoring
 - b) Draft composite maps
- 4. Pedestrian safety: The conditions pedestrians face
 - a) Pedestrian safety and security maps
 - b) Safety conditions maps
 - c) Draft criteria



Project Purpose

The project's goal is to improve walking conditions in San Francisco, and encourage walking as a way of getting around the city.

The WalkFirst project will **identify** where people walk, and **prioritize** how to make safety improvements to best serve pedestrians. This is important in order to best make use of limited funding.





Project Deliverables

- Map of key walking streets in San Francisco
- Method for prioritizing the most important safety improvements
- Preliminary list of pedestrian safety upgrades
- Draft policies to guide City decisions about pedestrian safety and walking conditions
- Examples of street designs to improve the walking environment







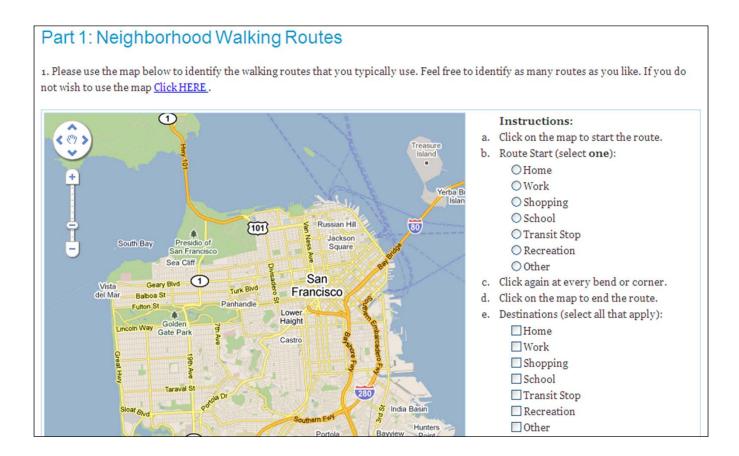


Category	Pedestrian Activity	Pedestrian Safety	Street and Sidewalk Characteristics	Project Readiness
Goal	Identify places	Identify most important locations for safety	Identify street and sidewalk infrastructure/	Identify opportunities to fund and construct pedestrian
Product	where people walk Map of key walking streets in SF	Map of identified areas of improvement for pedestrian safety	Preliminary project	improvements Preliminary project list

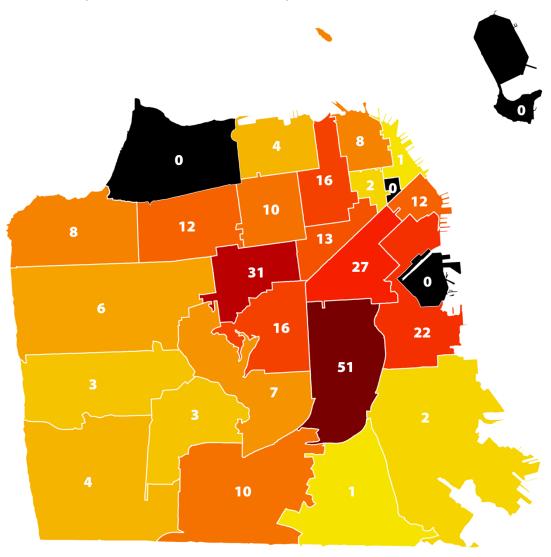


WalkFirst Survey Results

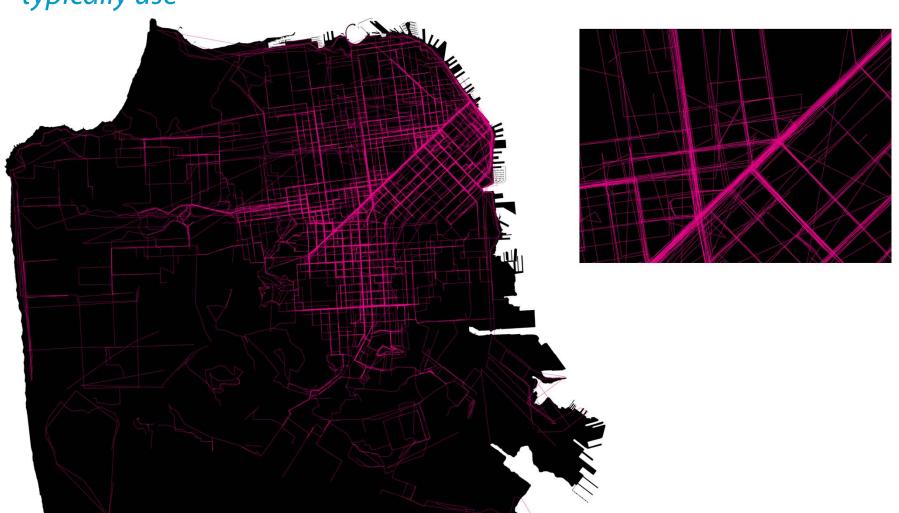
- On-line Survey available February 8 March 25, 2011
- 386 responses received



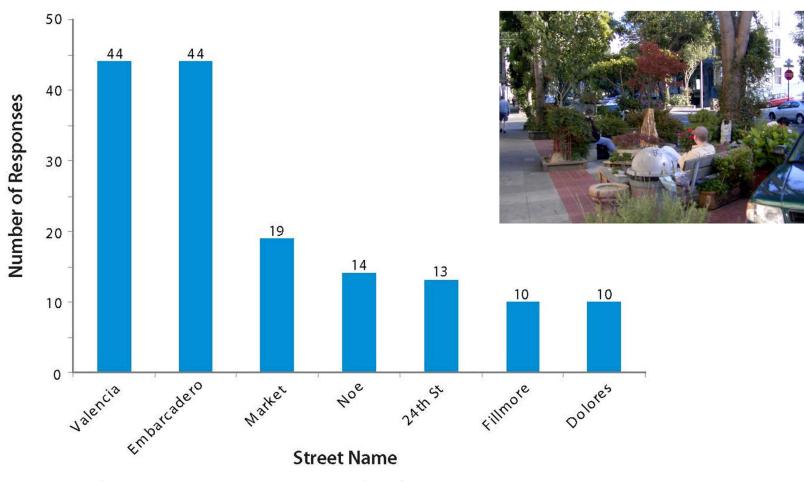
Location of survey respondents by zip code



Please use the map to identify the walking routes that you typically use



In San Francisco, which street is your favorite to walk on?

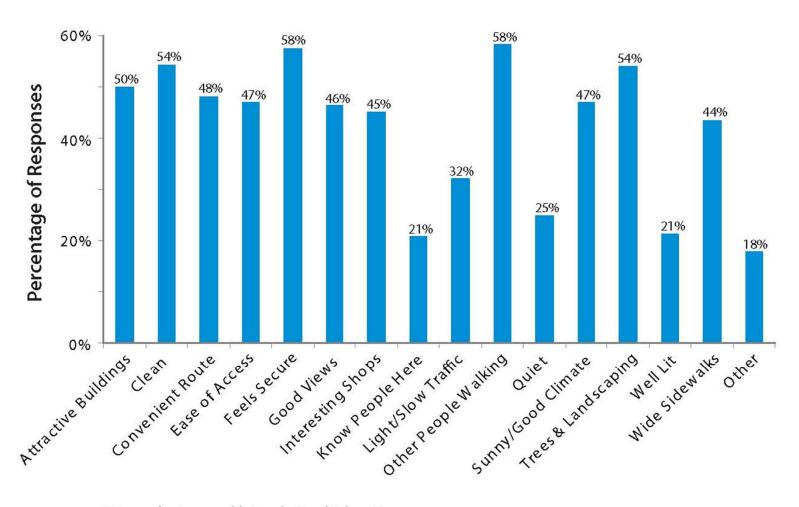


*Only streets receiving ten or more responses are shown here.

In San Francisco, which street is your favorite to walk on?

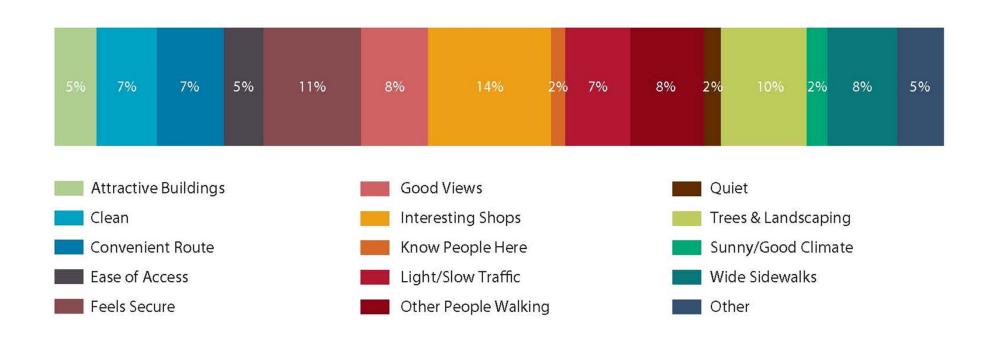


Why is this street your favorite?

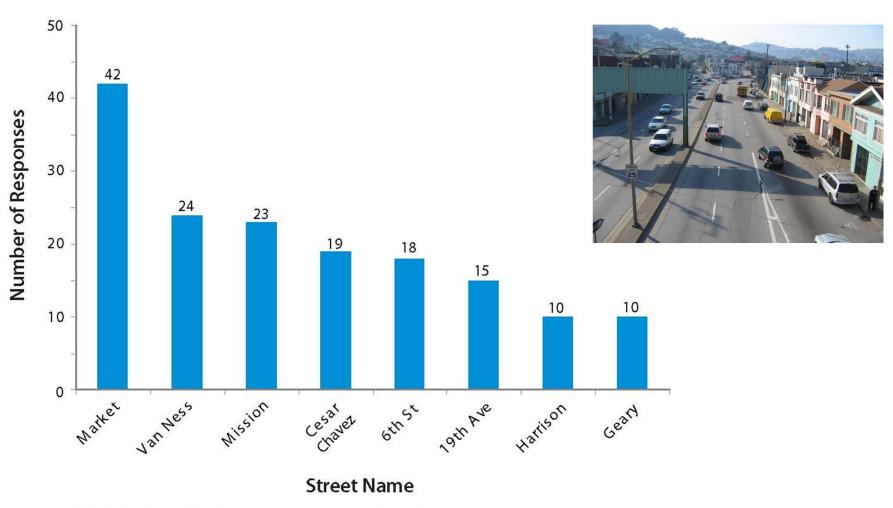


^{*}Respondants were able to select multiple options.

Of the reasons selected, which one is the most important?



In San Francisco, which street is your least favorite street to walk on?

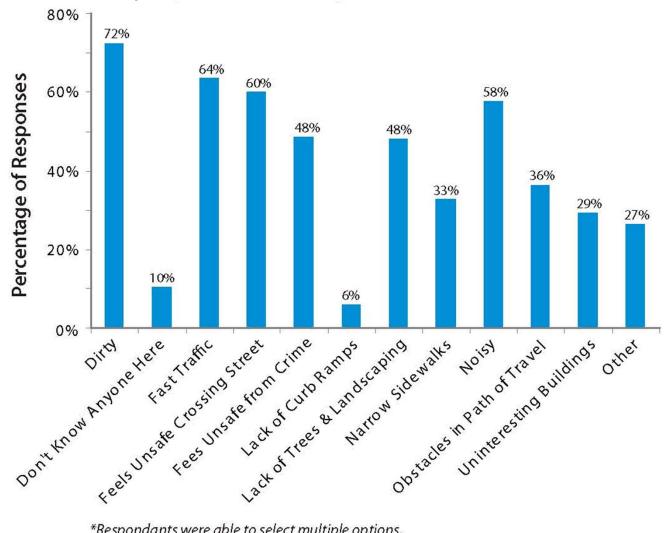


*Only streets receiving ten or more responses are shown here.

In San Francisco, which street is your least favorite street to walk on?

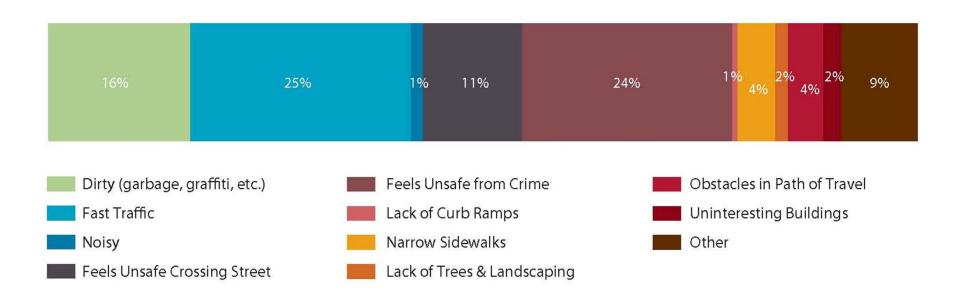


Why is this street your least favorite?



^{*}Respondants were able to select multiple options.

Of the reasons selected, which one is the most important?



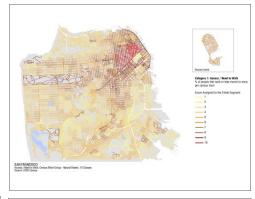


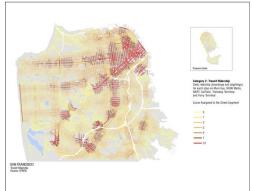
Pedestrian Activity: Where Walking is Important - REVISED

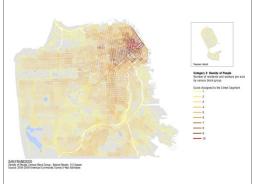
- Access/need to walk
 - Transit mode share, walking mode share
- Transit ridership
 - Daily transit boardings
- Density of people
 - Residential density, job density
- Pedestrian generators
 - Colleges, public & private schools, hospitals and clinics, shopping districts, parks, tourist destinations, senior centers, service providers to persons with disabilities
- Vulnerable populations
 - Seniors, youth, persons with disabilities
- Income
- Street slope

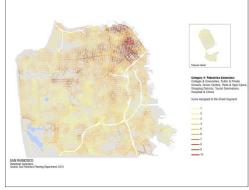
Pedestrian Activity:

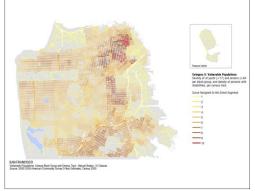
Category Maps with Street Segment Score 1-10



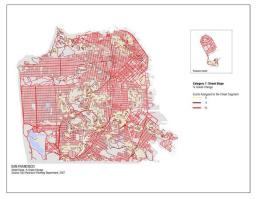




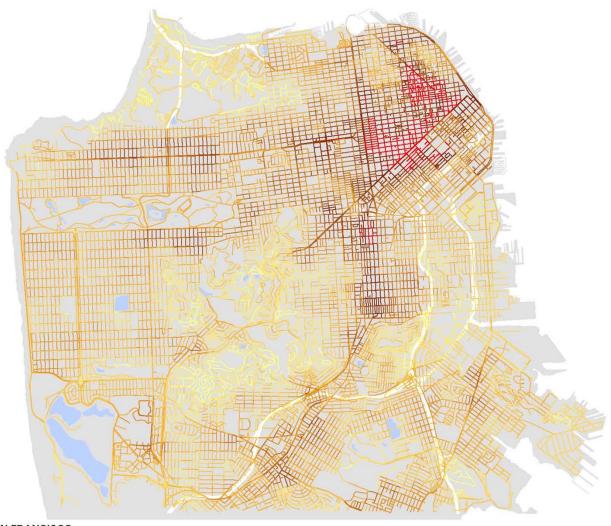








Composite Map



SAN FRANCISCO Composite Map 1 April 1, 2011

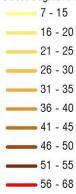


Composite Map 1: Raw Score, Equal Weights

Category 1: Access / Need to Walk Category 2: Transit Ridership Category 3: Density of People Category 4: Pedestrian Generators Category 5: Vulnerable Populations Category 6: Income

Category 7: Street Slope

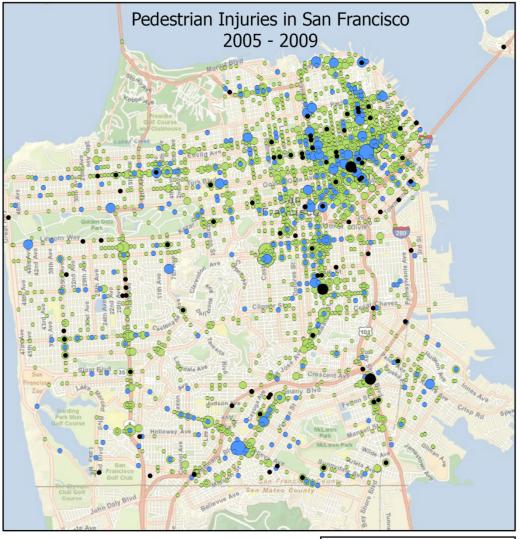
Street Segment Score





Pedestrian Safety Needs & Conditions: Draft Criteria

- Pedestrian Safety & Security
 - Pedestrian Injuries & Severity by Location
 - Pedestrian Collision Rate per Crossing
 - Crime Assaults, Homicide, Robberies, and Sex Crimes

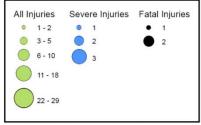


Number of Pedestrian Injuries and Severity

All collisions are geocoded to the nearest intersection.

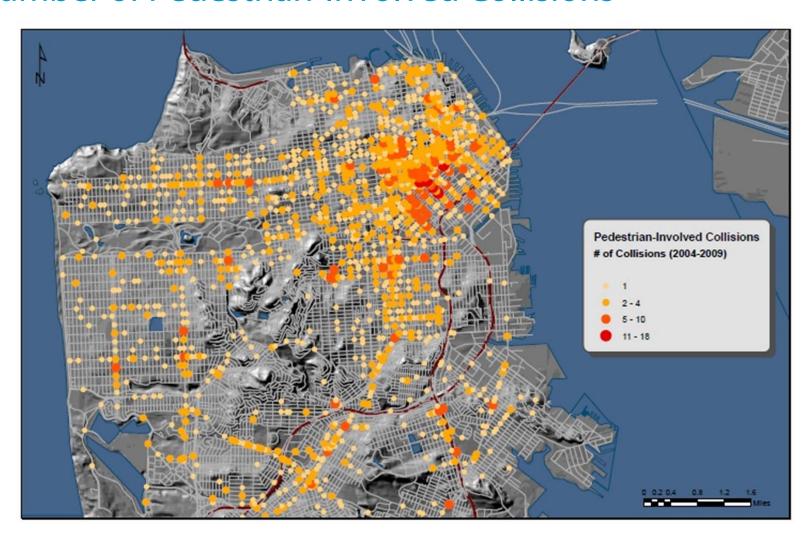
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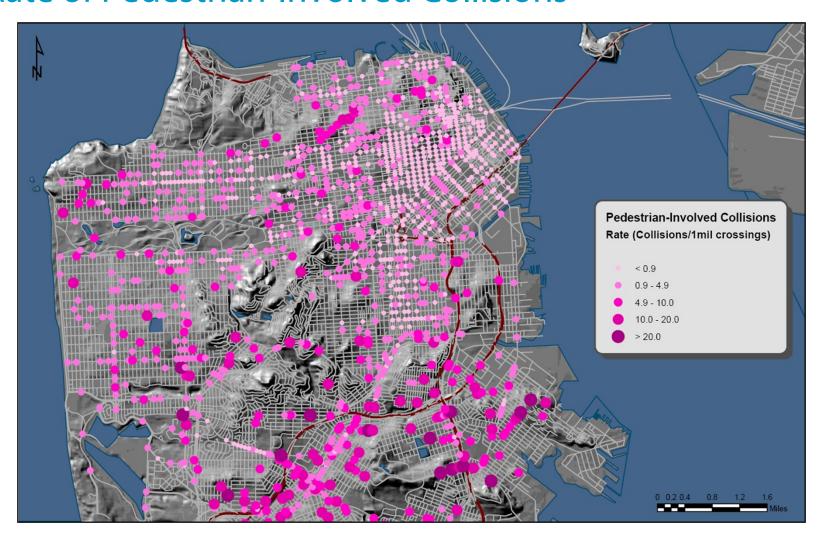


Data Source: Statewide Integrated Traffic Records System (SWITRS) Production Date: 03/28/2011

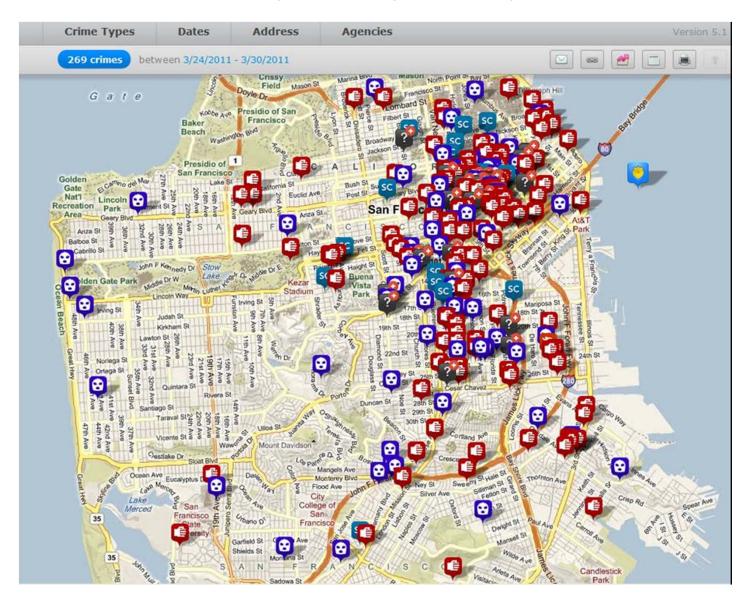
Number of Pedestrian-Involved Collisions



Rate of Pedestrian-Involved Collisions



Locations for Crime – Assaults, homicide, robberies, sex crimes





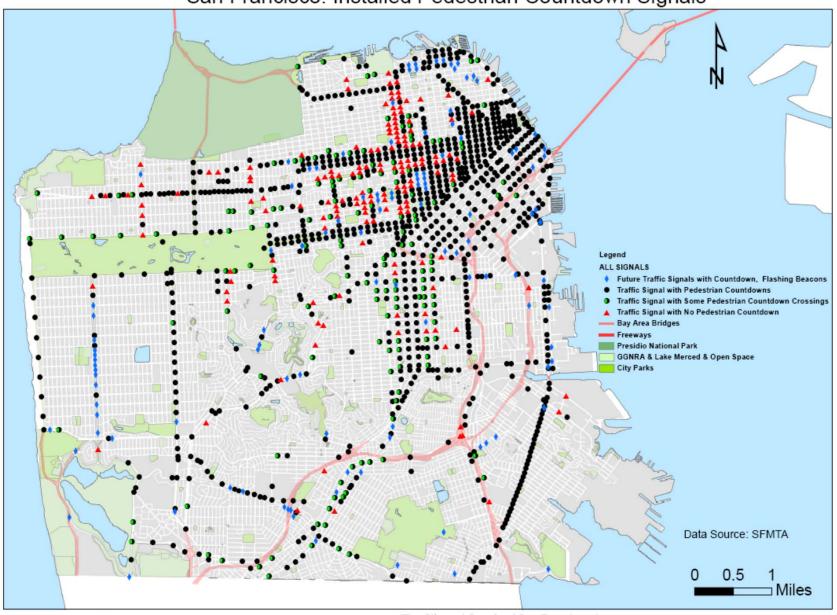
Pedestrian Safety Needs & Conditions: Draft Criteria

- Street and Sidewalk Characteristics
 - Traffic Control Devices
 - Stop Signs
 - Traffic & Pedestrian Signals
 - Continental Crosswalks, In-Pavement Crosswalk Lights
 - Ped Scramble Phasing
 - Street Designs & Streetscape
 - Street Crossing Distance
 - Street Lighting
 - Street Trees
 - Intersection & Driveway Spacing
 - One-Way Streets
 - Street Functional Type
 - Walking Space & Buffers
 - Sidewalk Width
 - Bike lanes
 - Planting strip
 - On-street parking

Pedestrian Safety Needs & Conditions: Draft Criteria

- Street and Sidewalk Characteristics
 - Traffic Characteristics
 - Traffic Volumes
 - Speeds: Posted Limit
 - Speeds: 85th Percentile Actual Speeds
 - Traffic Calming Features
 - Speed Humps
 - Bulbouts
 - Chicanes/Circles/Median Refuge Islands
 - Area Plans
 - Accessibility
 - Accessible Pedestrian Signals
 - Missing Sidewalks
 - Curb Ramps
 - Facilities to Cross Barriers

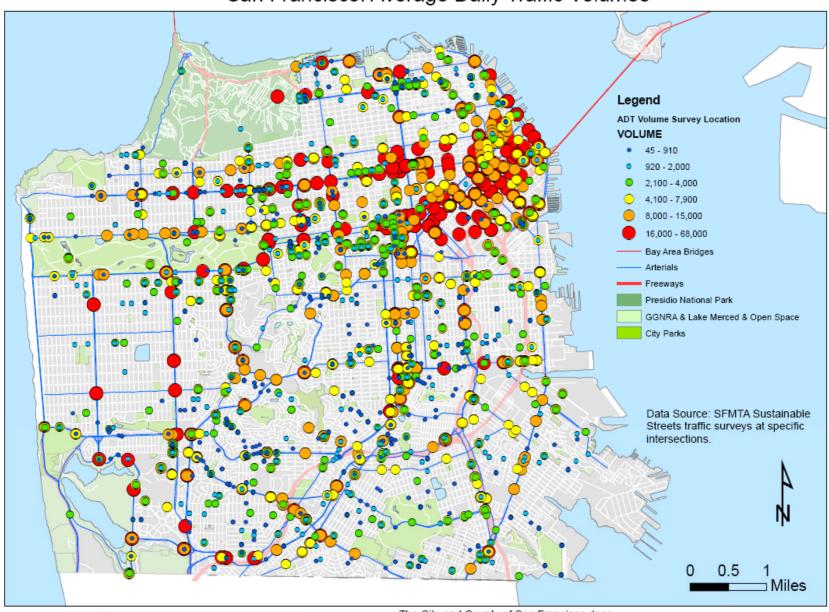
San Francisco: Installed Pedestrian Countdown Signals

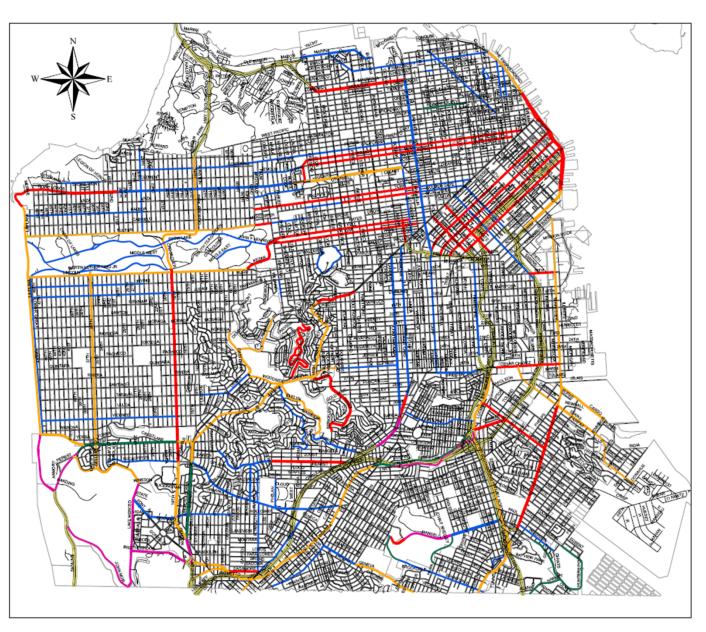


San Francisco: Accessible Pedestrian Signals



San Francisco: Average Daily Traffic Volumes





SPEED LIMITS

San Francisco, CA 2009

SPEED LIMITS De Facto (CVC) 25 30 35 40 45

Other Highway

De facto speed limit refers to the standard speed limits set by the California Vehicle Code (CVC). The speed limit is 25 MPH for most residential and commercial streets.

Map does not include any speed limits less than 25 MPH.



SFMTA

Municipal Transportation Agency

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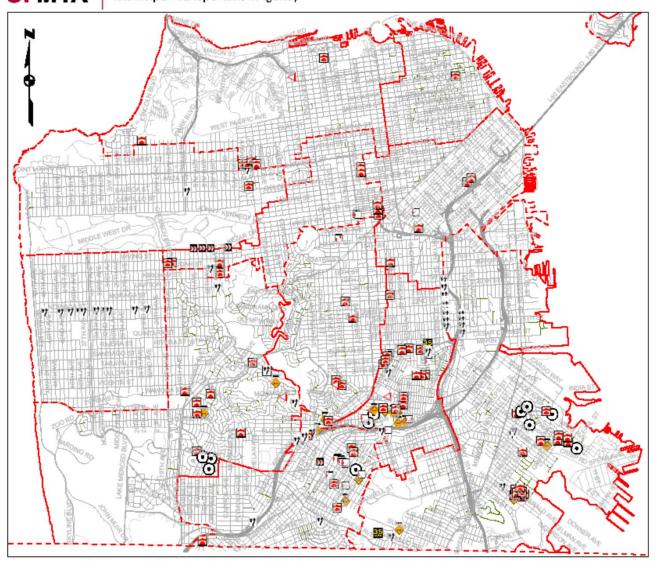
SOURCE: Basemap - Department of Public Works Speed limit layer - Department of Parking and Traffic Traffic Engineering

> Prepared by - Ricardo Olea Updates & Revisions by - Tamam Abdallah

Last Modified:	January 7, 2009		
Comments:			

SFMTA

Municipal Transportation Agency







Traffic Calming Program

Installed Measures

- □ Bulb-out
- Channelization
- Chicane
- Choker
- Diverter
- Median Extension
- Speed Radar Sign
- Speed Hump
- Speed Cushion
- Traffic Circle
- 7 Traffic Island

Prepared 3/15/2010

Pedestrian Safety

- Safety Level to be rated based on:
 - Severity-weighted number of pedestrian injuries (absolute number) AND
 - Pedestrian injury rate (per estimated no. of pedestrian crossings)
- Street and Sidewalk Characteristics to be considered in selecting and prioritizing specific capital improvements

Upcoming PSAC presentations

May

- Pedestrian activity: revised composite maps; draft map of key pedestrian streets
- Pedestrian safety: revised criteria and maps
- Project readiness: draft criteria

June

- Project readiness: revised criteria
- Guidelines for prioritizing and selecting projects
- Selected case study examples

Stay involved!

- Monthly presentations at PSAC
- Focus groups/stakeholder meetings
- Join the mailing list for updates: send an email to walkfirst@sfgov.org

For more information visit: http://walkfirst.sfplanning.org



