SFMTA

Municipal Transportation Agency

## DRAFT 2011 CLIMATE ACTION STRATEGY for the Surface Transportation Sector

03 | 03 | 2011 | SAN FRANCISCO, CALIFORNIA

November 12, 2008 - Santa Rosa Business Association November Newsletter

# Santa Rosa Senior Planner Peter Brown Advocates Offing the Elderly as part of the City's 2035 General Plan Update!

By Kan Tokered

Much to the shock of many of those in attendance at Thursday's community forum at the Finley Center, Santa Rosa's Planning Department unveiled the scope of their General Plan update...

## **Outline of the talk**

- 1. San Francisco at a glance
- 2. Proposition A city goals
- 3. What is sustainable transportation?
- 4. Six Strategies to reduce GHGs
- 5. Key findings
- 6. Audience and panel discussion



# **Climate Planning Strategies**

#### MITIGATION

#### ADAPTATION

Reduce Greenhouse Gas Emissions

- Reduce VMT and the use of fossil fuels
- Create needed transit, bicycle, and pedestrian infrastructure

Focus of 2011 CAS

Reduce Expected Impacts from Climate Change

- Prepare for extreme conditions and events
- Prepare for disruptions to travel

#### Future CAS updates

#### Heavy Rains Linked to Humans

ts and states Published: February 16, 2011

An increase in heavy precipitation that has afflicted many countries is at least partly a consequence of human in

In the first <u>major paper</u> of simulate the climate to an similar events could be en could not, and that the imgreenhouse gaues release

#### Emissions Fell in 2009, Showing Impact Of Recession

By 208A 34 BRODER Published: February 15, 2013



WASHINGTON — Govenhouse gas emissions in the United States declined in 2009 for the second consecutive year, reflecting the impact of the <u>receision</u> on industrial production and overall energy use, the federal government reported on Wednesday.

Emissions of carbon donside and other climate-altering gases fell 6 percent in 2009 and were at their lowest level since 1995, according to the Euroronneotal Protection Agency, which produces the manual increasion of emissions. The agency attributed the decline to the economic slowdown and a shift from coal to cleaner-burning natural gas to produce electricity as the price of natural gas has declined.

Pakistan suffered from devastating floods in 2010, which left these Pakistanis trapped on a strip of land surrounded by water.

## **2011 Citywide Climate Action Plan**



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2011 CLIMATE ACTION STRATEGY San Francisco Surface Transportation Sector

- 2004 San Francisco CAP undergoing update in 2011 lead by SFE
- The SFMTA CAS is the transportation section
- All City Departments are required to develop a "DepCap"

SFMTA San Francisco's Mobility Manager

SEMTA



### SF at a Glance



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# **City of Short Trips**



# **Proposition A 2007:**

#### **Transit Reform, Parking Regulation & Emissions Reductions**

"The voters find that reducing the carbon emissions from San Francisco's transit sector is fundamental to the City's health and well-being and shall be among the Agency's policy priorities.

> Because the Agency has significant influence on San Francisco's transportation sector, which is responsible for half of the carbon emissions within the City,

the voters direct the Agency to develop and implement strategies for substantially reducing those emissions.

The voters further affirm the goals of the City's Climate Action Plan."



Sources: Energy Information Advantation, Fasterial Highway Advantation, Browlenge Institution

tited instances instances

## **Sustainable Transportation!**



The guiding principles of the City and County's Transit-First Policy, adopted 1973



Figure 1.3 Annual average sea levels measured at the San Francisco tide gauge station at Fort Point (1856-2010). (Data from NOAA/NOS compiled by URS, 2011).

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# **GHGs by Sector**











The sum of all these polices reduces GHG & local criteria pollutants

# Interdependent CAS Strategies

- Transportation Demand Management
  - Strategy 1: Travel Choice
  - Strategy 2: Demand Pricing
  - Strategy 3: Transit-Oriented Development
- Infrastructure Support
  - Strategy 4: Transit Improvements
  - Strategy 5: Complete Streets
  - Strategy 6: Electric/Low Carbon Vehicles



## **Strategy 1: Travel Choice**

- Expanding commuter, visitor and resident travel options
- Parking policy and cashout reforms
- Integrating information, payment and services
- Education and outreach to residents



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## **Strategy 2: Demand Pricing**



# CN Money.com

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### Exxon Mobil: Biggest profit in history

The largest U.S. oil company surges past analysts' estimates with a posted net income of \$14.83 billion and sets a national record for quarterly profit.

By Aaron Smith, CNNMoney.com staff writer Last Updated: October 30, 2008: 3:28 PM ET

NEW YORK (CNNMoney.com) -- Exxon Mobil Corp. set a quarterly profit record for a U.S. company Thursday, surging past analyst estimates.

Exxon Mobil (XOM, Fortune 500), the leading U.S. oil company, said its third-quarter net profit was \$14.83 billion, or \$2.86 per share, up from \$9.41 billion, or \$1.70, a year earlier. That profit included \$1.45 billion in special items.

The company's prior record was \$11.68 billion in the second quarter of 2008.

The latest quarter's net income equaled \$1,865.69 per second, nearly \$400 a second more than the prior mark.

The company and its property total of \$137.7 billion in the third courter



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## **Cruising creates excess vehicle travel**

- 1. 3 minutes to find a curb space, the turnover rate is 10 cars per space per day.
- 2. Cruising 3 minutes for parking 10 times a day creates 30 vehicle-minutes of travel per curb space per day.
- 3. Cruising for 30 minutes at 10 miles an hour creates 5 VMT per space per day.
- 4. Cruising 5 VMT a day for 500 spaces creates2,500 VMT per day.
- 5. Cruising 2,500 VMT a day for 365 days creates 912,500 VMT per year.

# How far is 912,500 VMT?

- 36 trips around the earth (25k miles)
- 4 trips to the moon (239k miles)
- It would take one person 10 years, 24 hours a day, to drive 912,500 miles.
- Wastes 47,000 gallons of gasoline
- Produces 730 tons of CO<sub>2</sub>
- One part, of one city, in one year



### **Strategy 3: Transit-Oriented Development**





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## **Strategy 5: Complete Streets**



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## **Strategy 6: Electric Vehicles**



### **Regional vs. San Francisco goals/contribution**



Source: MTC, SF CHAMP 4.1 p2009

#### Social Equity - Social Sustainability - Social Cohesion:

- Less air pollution and quieter transportation systems
- More connected neighborhoods
- Greater access to existing jobs in San Francisco
- Local and green job generation city-wide
- Better transit connectivity
- Easier access to activity centers
- Safer street intersections and neighborhood circulation
- More resilient city to cope with climate disruption
- Pricing to change behavior toward relieving congestion
- Economic and community development through neighborhood agreements and demand pricing
- More reliable and locally-ccontrolled revenues for transportation





# Achieving SF's Ambitious Goals

(25% below 1990 by 2017 and 40% by 2025)

- 91% of emissions come from passenger vehicles (VMT) any real reduction must focus here.
- Significant political and financing challenges are major obstacles to GHG reductions and lifestyle changes
- If ALL local strategies are implemented and combined with our partners' efforts our goals might be attainable

# **Key Findings by Strategy**

getting to 50% below 1990 levels by 2035

- Travel Choices/TOD policies: Cost effective to implement now
- Demand Pricing: Mode shifts generate new LOCAL revenue and demand for transit, bicycle and walking (politically challenging)
- Transit capacity: future growth and all mode shift strategies rely on core transit capacity and complete street buildout
- Electrification: EV adoption requires significant investment (public and private)

## **Government and Community roles**



# Q and A

Transportation Panel:

- David Baker, SPUR and SF Bicycle Coalition Board
- Timothy Papandreou, SFMTA Deputy, Sustainable Streets
- Liz Brisson, Transportation Planner, SFCTA



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### SFMTA Municipal Transportation Agency SPUR IDEAS AND ACTION FOR A BETTER CITY