

# Transportation Demand Management at Stanford University A Brief Overview

August 17, 2013



# TDM

Transportation Demand Management is the application of strategies and policies to reduce travel demand (specifically of single-occupancy private vehicles), or to redistribute this demand in space or in time.



#### **Importance of TDM at Stanford**

- Environmental Sustainability
  - Climate change
  - Air quality
  - Resource conservation
- Community Relations
  - Traffic (GUP) and neighborhood parking
  - Public service (Marguerite)
- Employee Well Being
  - Stress reduction
  - Increased exercise
  - Financial rewards
- Reduce Investment in Parking



#### TDM Program

- Extensive shuttle
- Parking fee program
- Emergency ride home
- Freshman "no cars"
- Transit information
- Rideshare matching
- Bicycle program
- Pre-tax transit pass + commuter checks
- Eco Pass/Go Pass

- Charter services
- Commute planning
- Car rental: hourly half-day
- Carsharing
- East Bay Express
- Commute Club
- Work shift mgt.
- Personal outreach
- Promotions / events
- Extensive website



#### **Commute Club Program**

- Clean Air Cash
   (\$300/year) and other
   incentives
- Carpool permit
- Vanpool subsidies
- Reserved parking spaces for carpools/vanpools
- Complimentary daily parking passes for carpoolers
- Rewards for recruiting members

- 12 free hours of car rental
- Transit subsidy
- Purchase eight daily permits per month
- Entries into regular prize drawings
- Members only gifts
- "Love Stories,"
   Commute Heroes,
   "Picture My
   Commute," "Pain at the Pump"



### Marguerite Fleet



32 to 38 passenger Diesel Electric Hybrid = 5



32 to 37 passenger Diesel Transit = 21



28 to 30 passenger Diesel Shuttle = 19



14 to 16 passenger Diesel Sprinter = 9



# Parking & Transportation Service:

## **Marguerite Fleet**

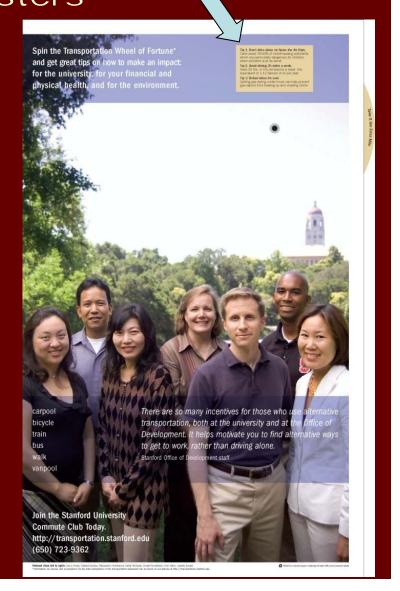


Three electric buses due this week

Parking & Transportation Services

#### **Promote: Campaigns**



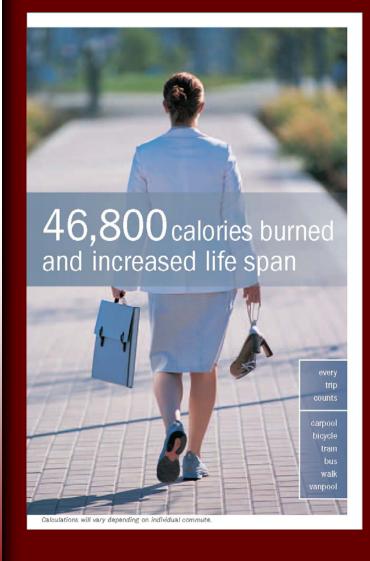




# Parking & Transportation Services

#### **Promote: Campaigns**

#### Postcards

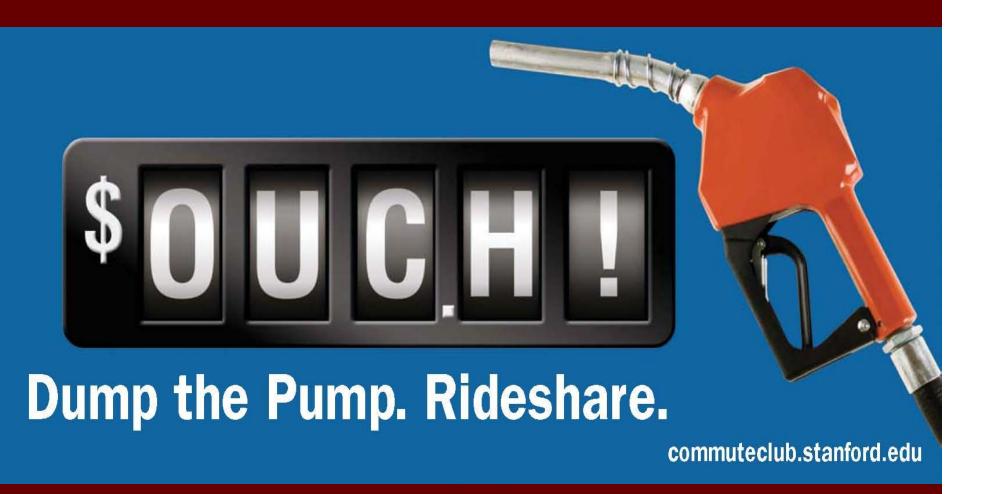




#### **Promote: Campaigns**



#### **Promote: Campaigns**



#### **Everything's coming up roses**

Try a sustainable commute.

Things just might come up roses for you, too.



Congratulations, Stanford Football! 2013 Rose Bowl Champions

transportation.stanford.edu

#### Stanford Commute Club



8,000 members.

Greater rewards.

Learn more >>



fun
fitness
me time
money
relaxation

join us!

















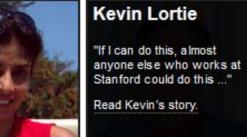


























My commute helped me keep my New Year's resolutions



more time for me >>

Request 2013 Caltrain and VTA passes



Eligible employees learn more >>

My commute helped me keep my New Year's resolutions



walk more, save more >>

My commute helped me to lose two sizes and make money



exercise more, save more >>



Things might come up roses for you. >>

Request 2013 Caltrain and VTA passes



Can your commute put you in a better mood?

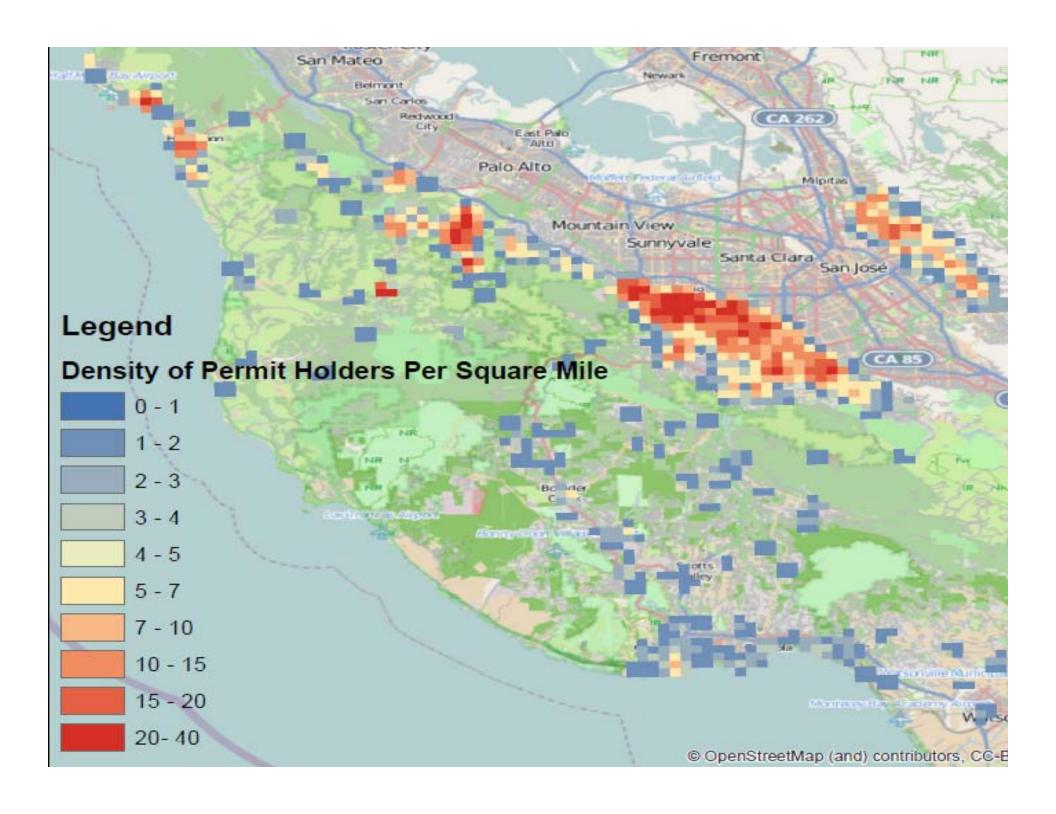


Ramzi Salti says it can >>

My commute helped me to lose weight and reduce stress



exercise more, stress less >>

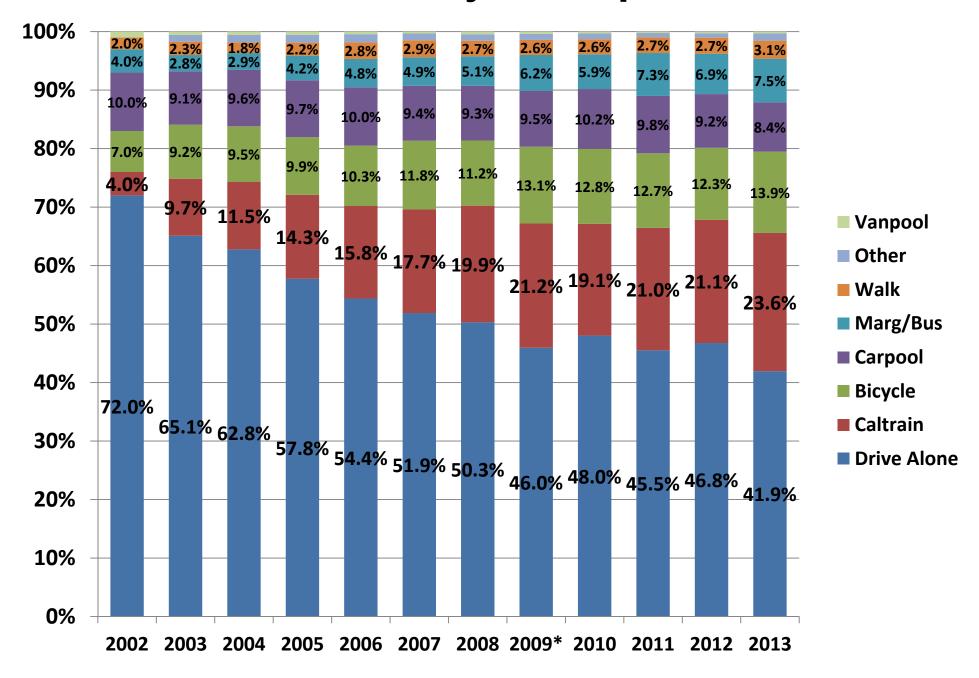




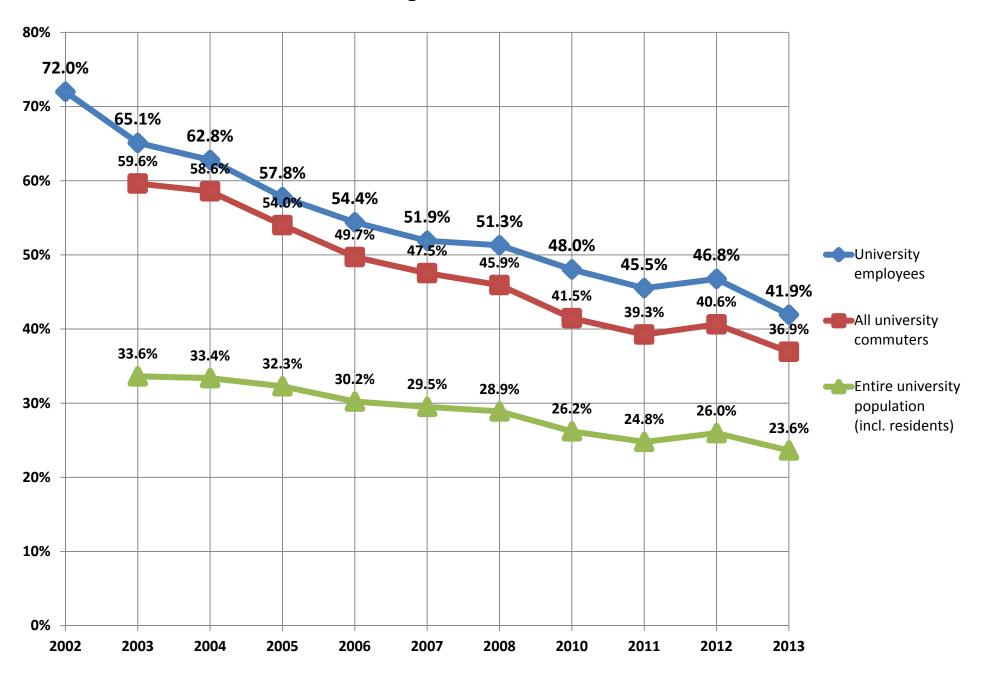
#### **Metrics**

- ✓ Annual trip counts (3,474 am, 3,591 pm)
- ✓ Campus commute mode survey
- ✓ Commute Club/carpool participation
- ✓ Parking permit sales
- ✓ Campus parking demand
- ✓ Marguerite shuttle ridership
- ✓ Commuter VMT/carbon footprint
- ✓ Program costs
- ✓ Parking construction costs avoided

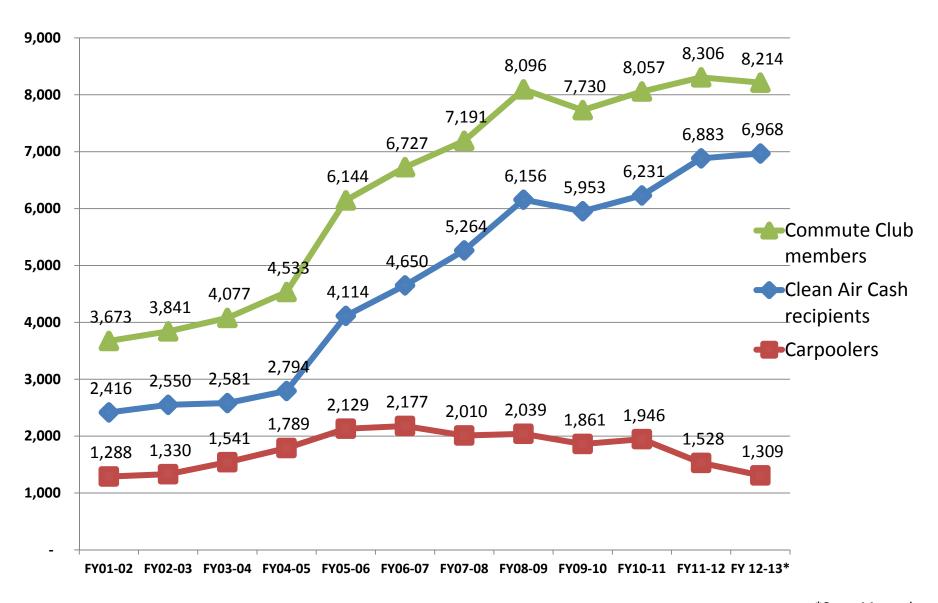
#### **University Mode Split**



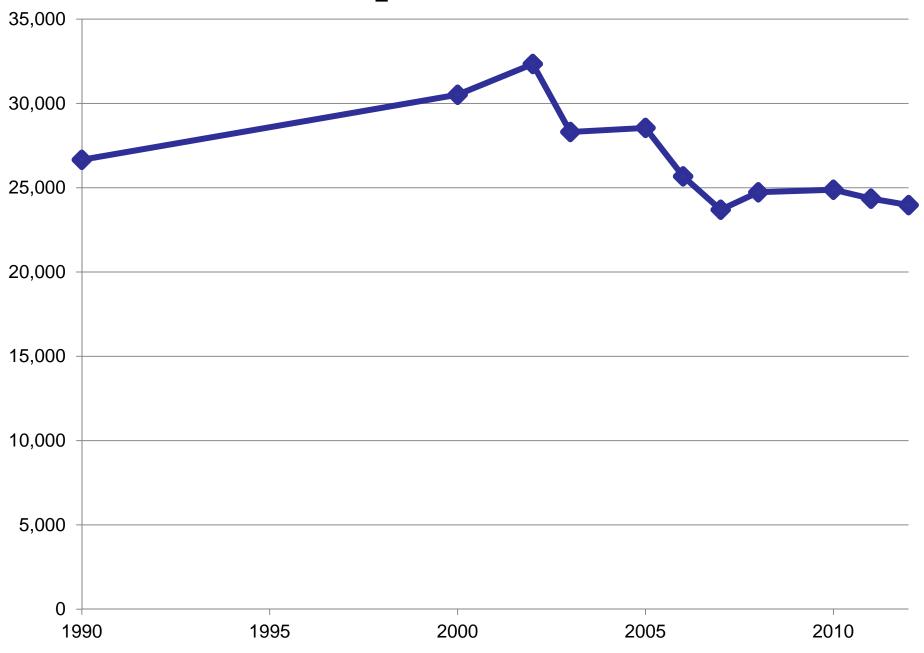
#### **University Drive Alone Rates**



#### **Commute Club Membership**

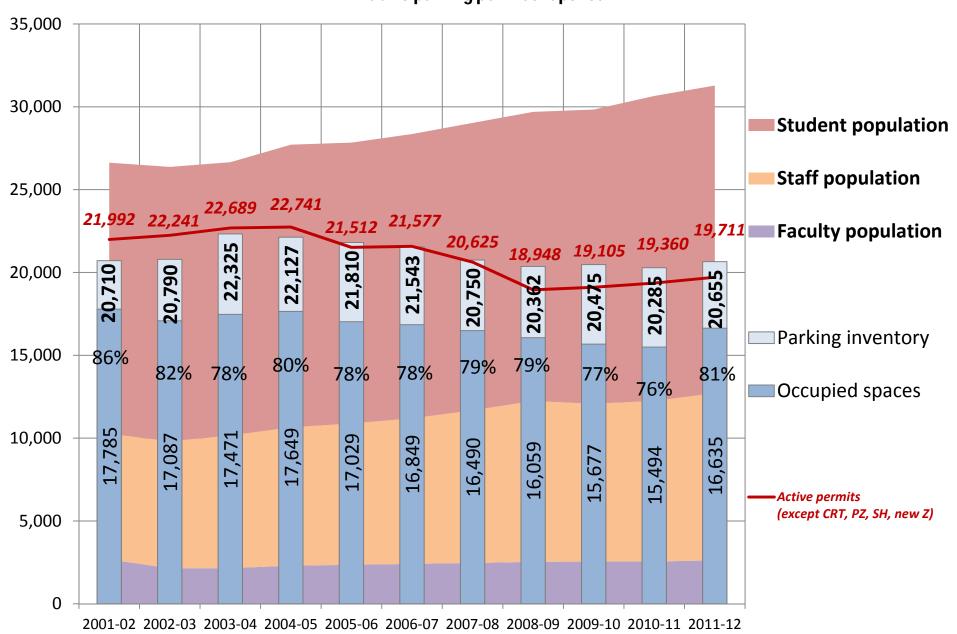


#### **Commuter CO<sub>2</sub> Emissions (metric tons**)



#### **Parking Inventory/Utilization**

Feb. 15 parking permit snapshot





#### **Parking Construction Avoided**

**Group Drive alone rates** 

**Employees** 2002 = 72% 2011 = 45.5%

**Grad Students** 2004 = 51.6% 2011 = 28%

Postdocs 2003 = 46% 2011 = 21%

Parking spaces not constructed due to drop in parking demand: 3,172

Construction cost avoided: 3,172 x \$34,000/space = \$107,848,000



#### http://transportation.stanford.edu

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