

Complete Streets Implementation



City of
Oakland

Jeffrey Tumlin, Interim Director
Oakland Department of Transportation

1. Think like an economist

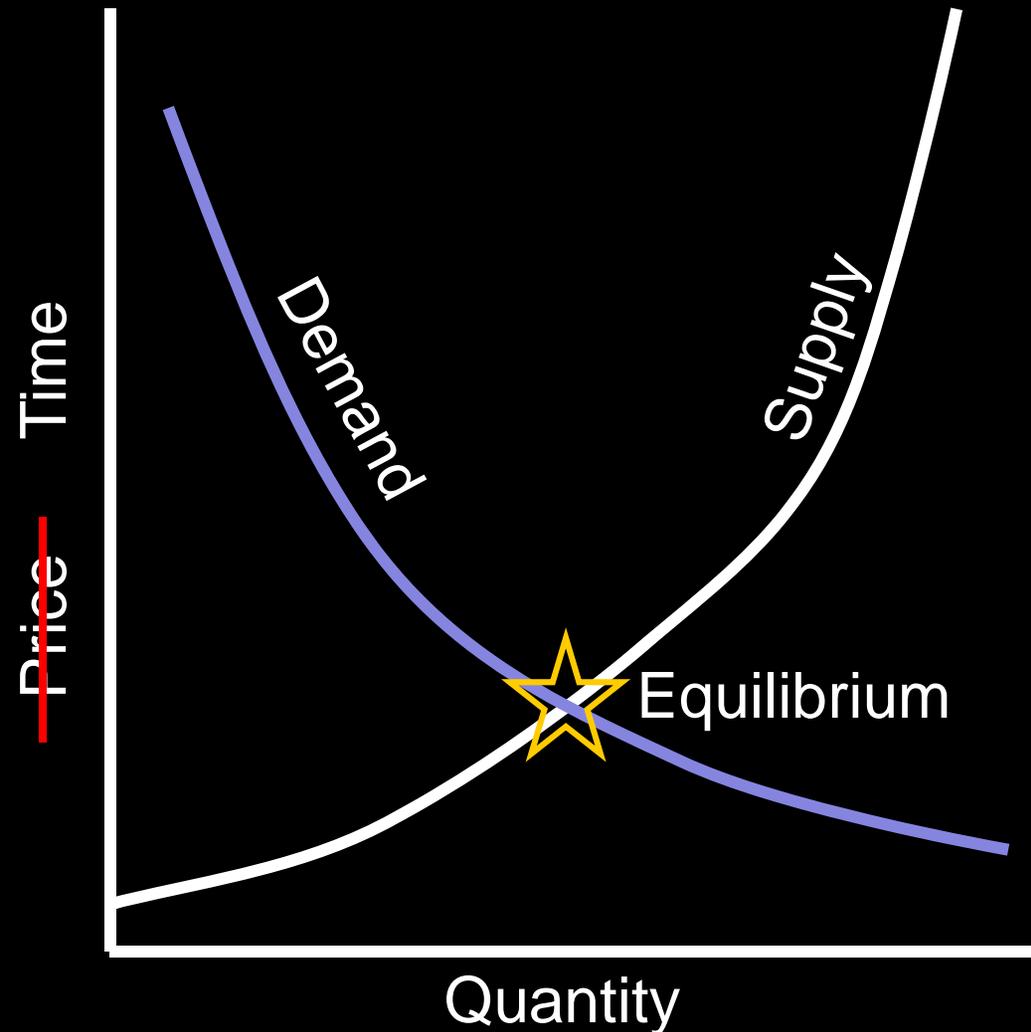
Personal Mobility: Most Inefficient Sector

- Cars used only
5% of useful life
- Only 25% of
capacity used

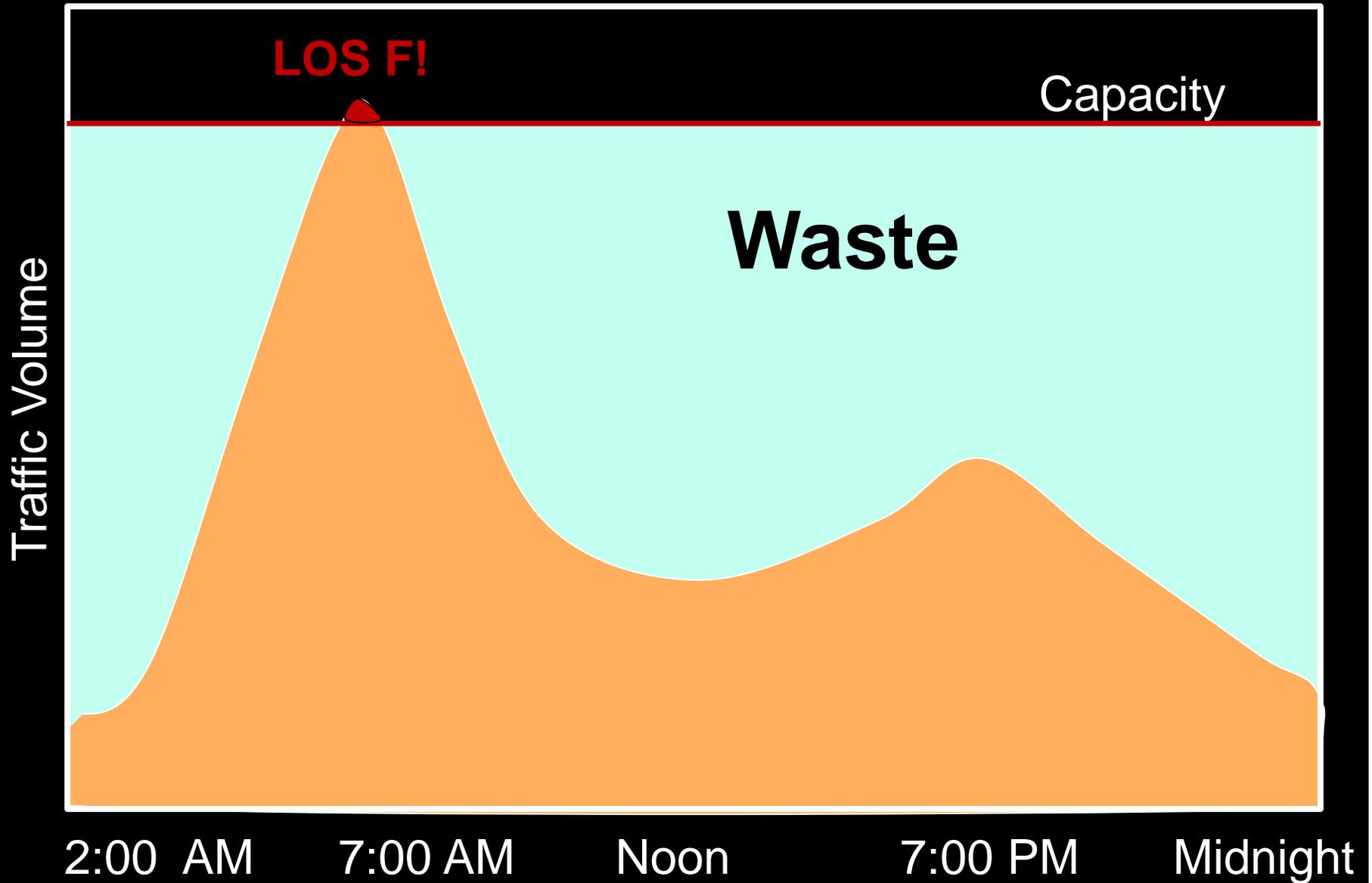


Transportation Demand Management

- Making more efficient use of existing infrastructure
- Making sure mobility is always available, whenever needed



Traffic Economics



2. Measure What Matters

Old Speed Paradigm -> Roadway LOS

LOS	Average delay in seconds per vehicle	Description of motorist perception
A	< 10	Free-flow traffic: "Good" LOS
B	10.1 – 20	Reasonable free-flow
C	20.1 – 35	Stable but unreasonable delay begins to occur
D	35.1 – 55	Borderline "bad" LOS
E	55.1 – 80	"Bad" LOS: long queues
F	> 80	Unacceptable: very high delay, congestion

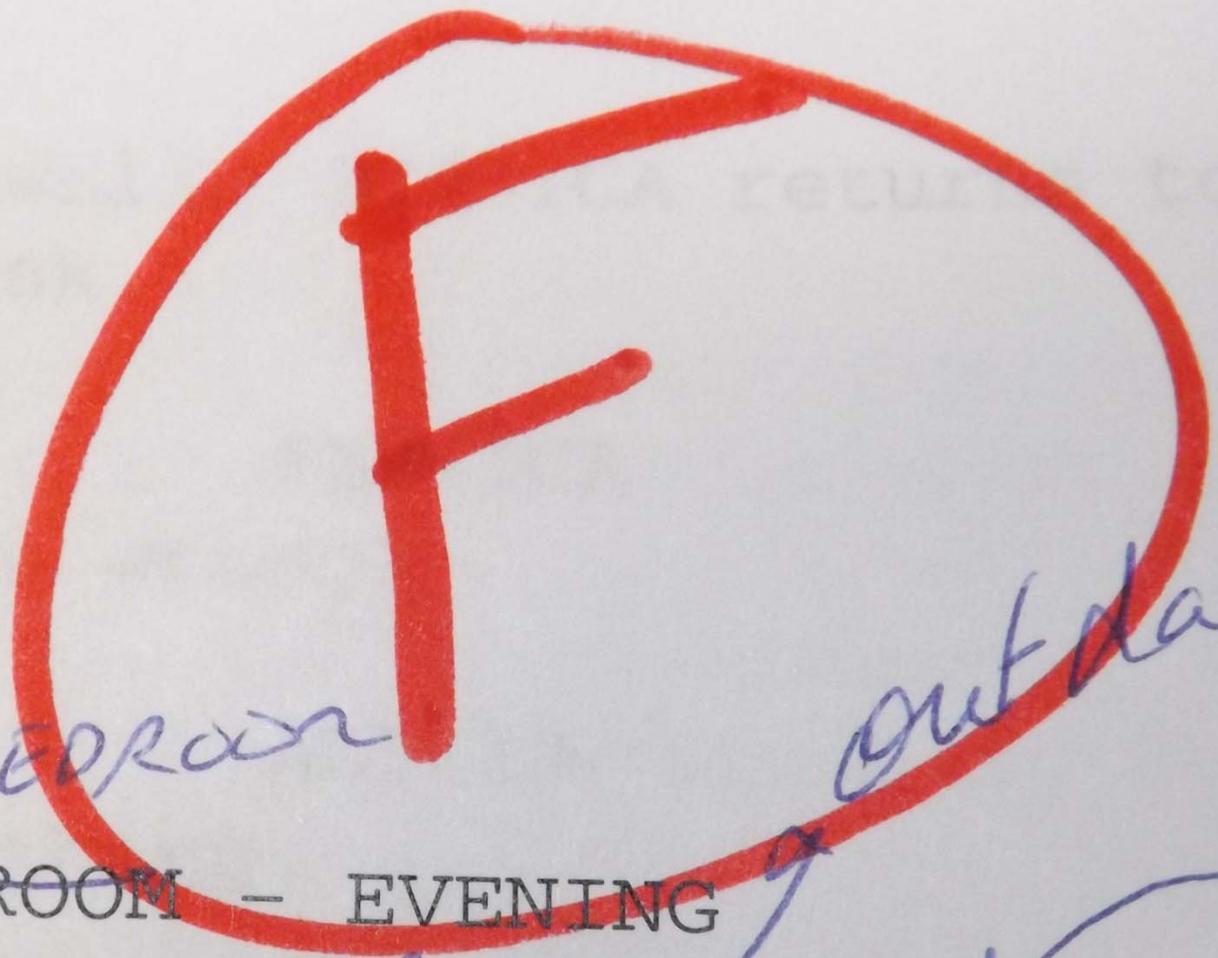
ia

IN:

Bedroom

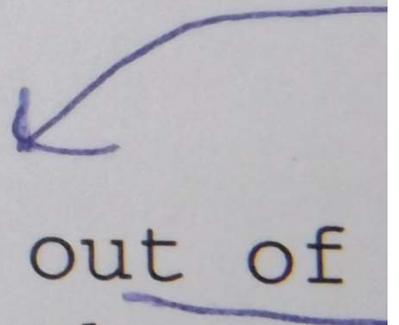
ALICIA'S ROOM - EVENING

A, a Mexican American teen, out of room. She slams the door and throws which is covered with worn purple sl



out dated

CAP





Level of Service A



Level of Service, F

Source: Neighborhoods.org

What's important depends upon perspective



Traffic engineer:

F

A

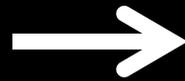
Economist:

A

F

California Shift: Senate Bill 743

LOS

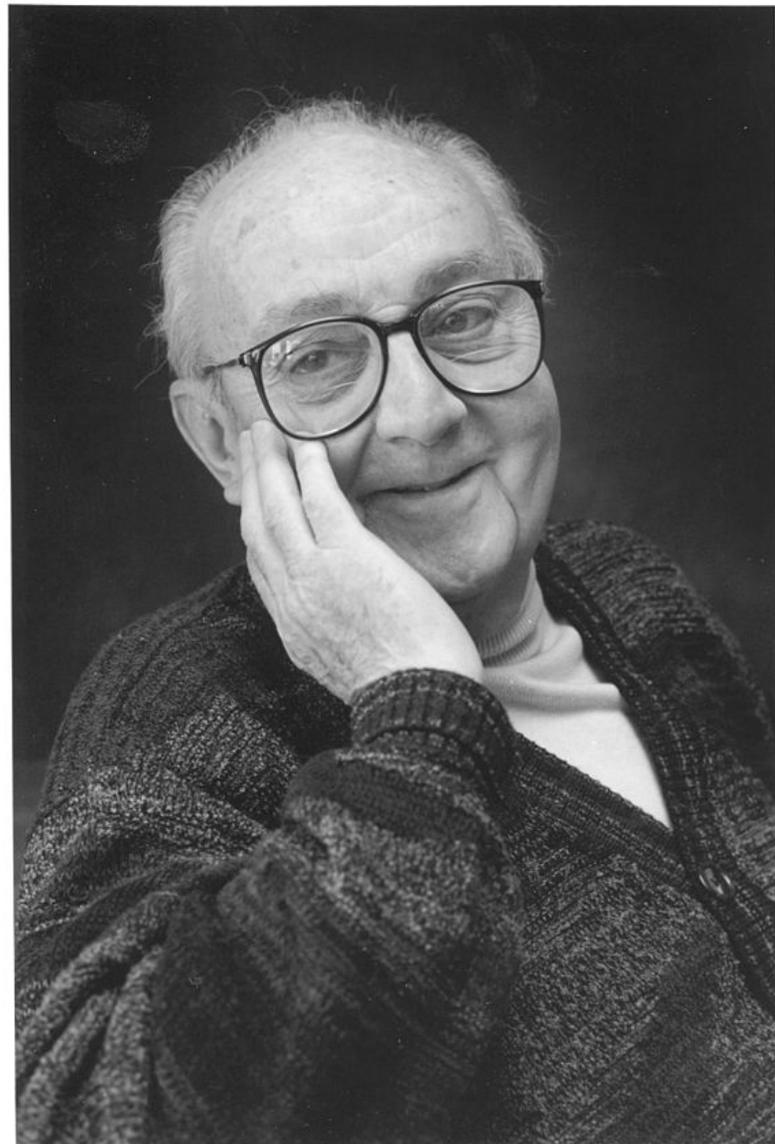


**Regional
Average per
Capita
Vehicle
Kilometers
Traveled**

**3. Use the Right Tools,
and Use them Correctly**

**"All models are
wrong, but some
are useful."**

**George E. P. Box,
*Empirical Model-Building
and Response
Surfaces* (1987)**



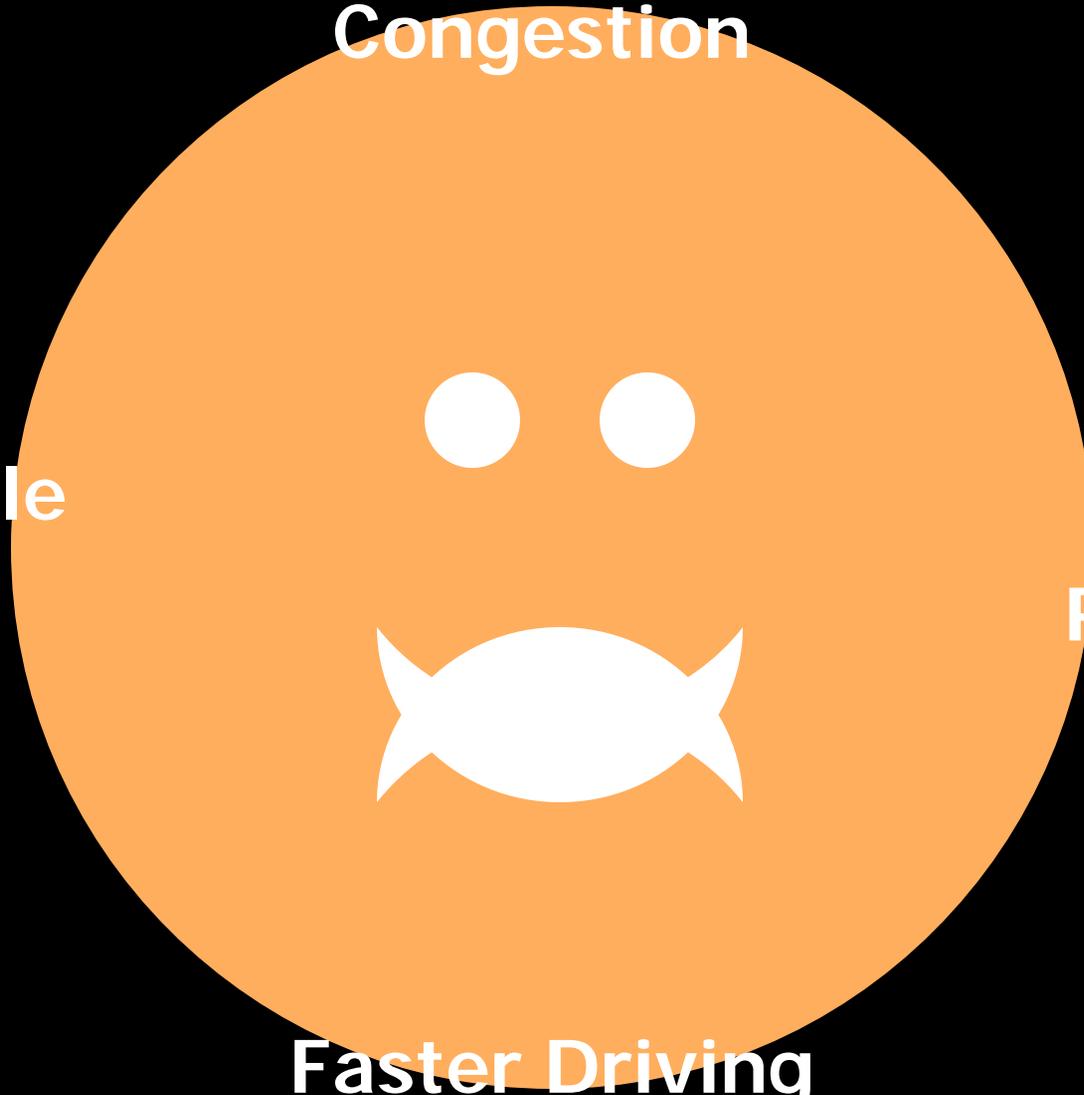
Induced and Latent Demand

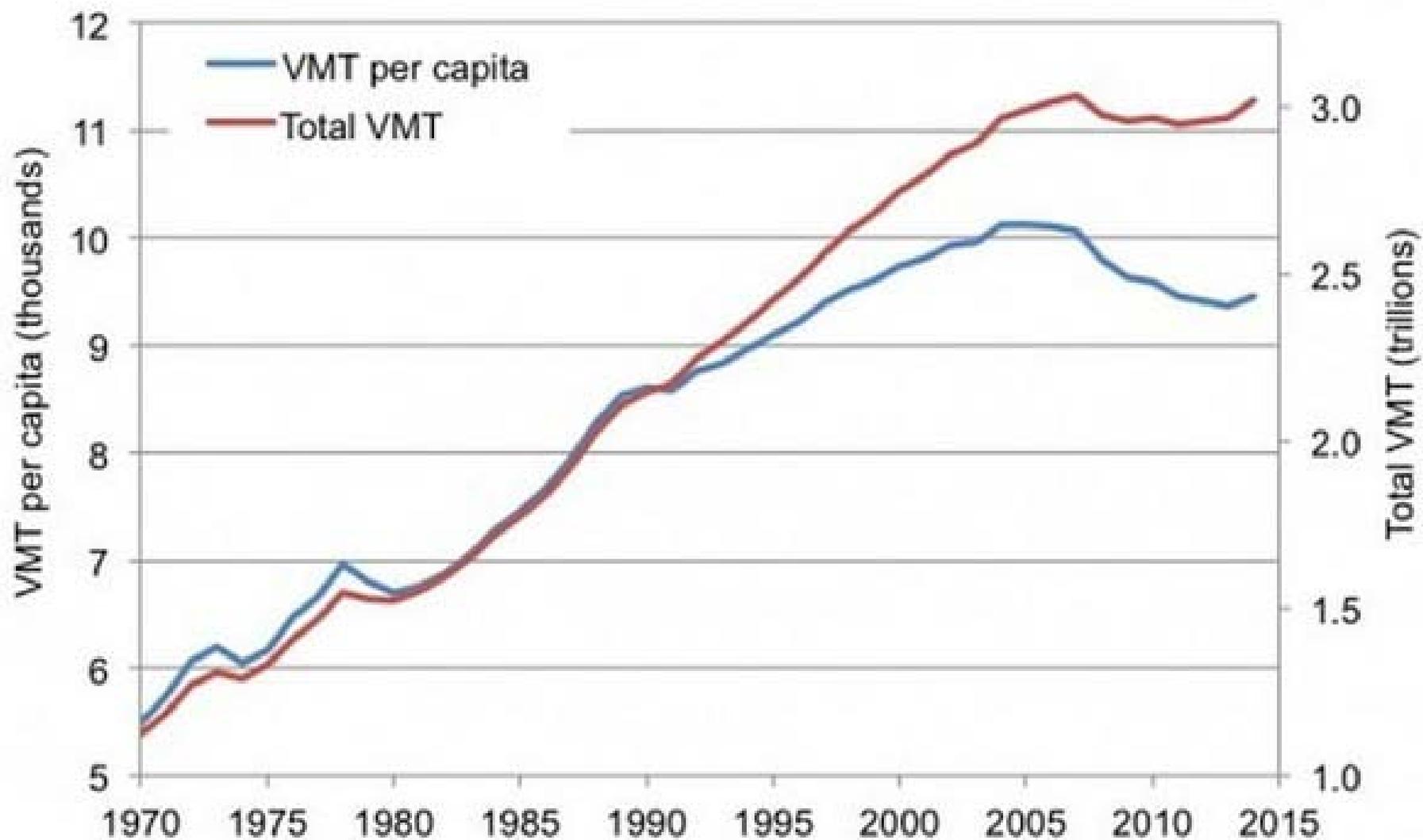
Congestion

More People
Drive

Widen
Roadway

Faster Driving





State Smart Transportation Initiative

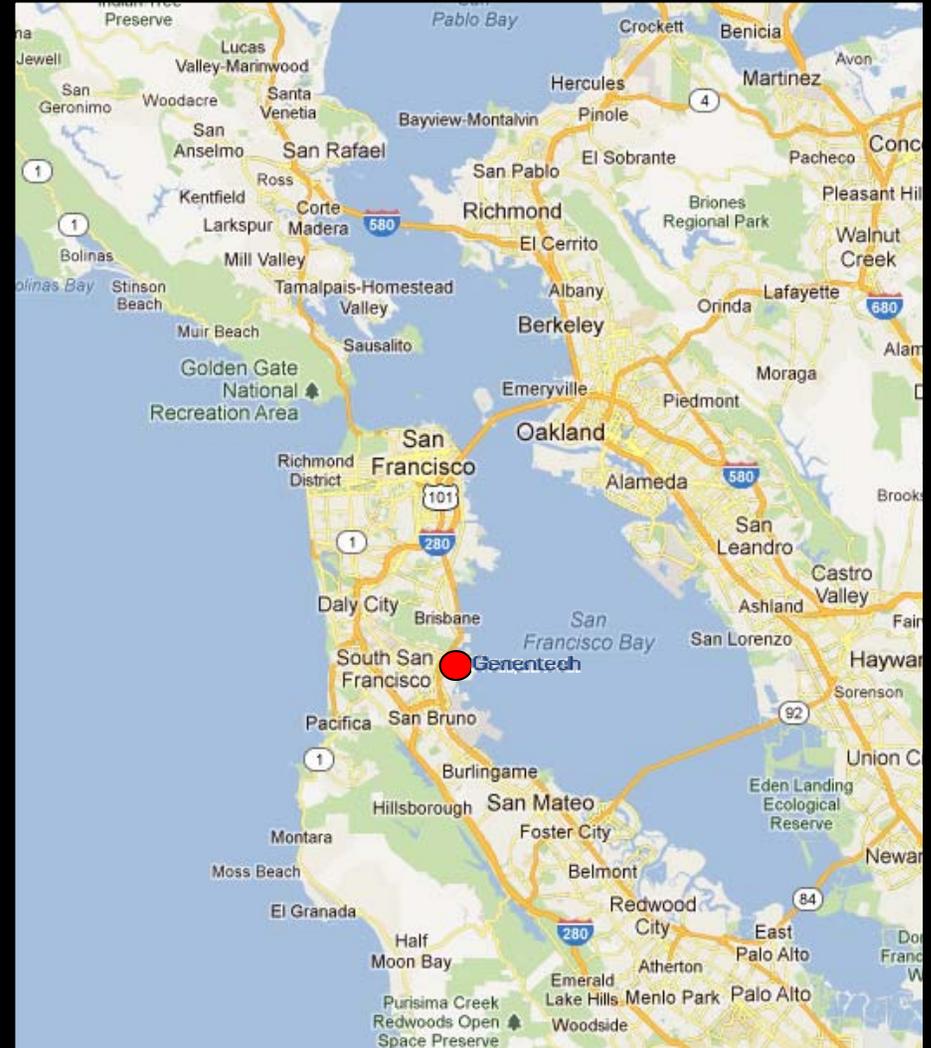
Figure 1. Annual vehicle-miles traveled (VMT), total and per capita, in United States. Data source:

FHWA and Census Bureau.

4. Reward the Private Sector for doing the Right Thing

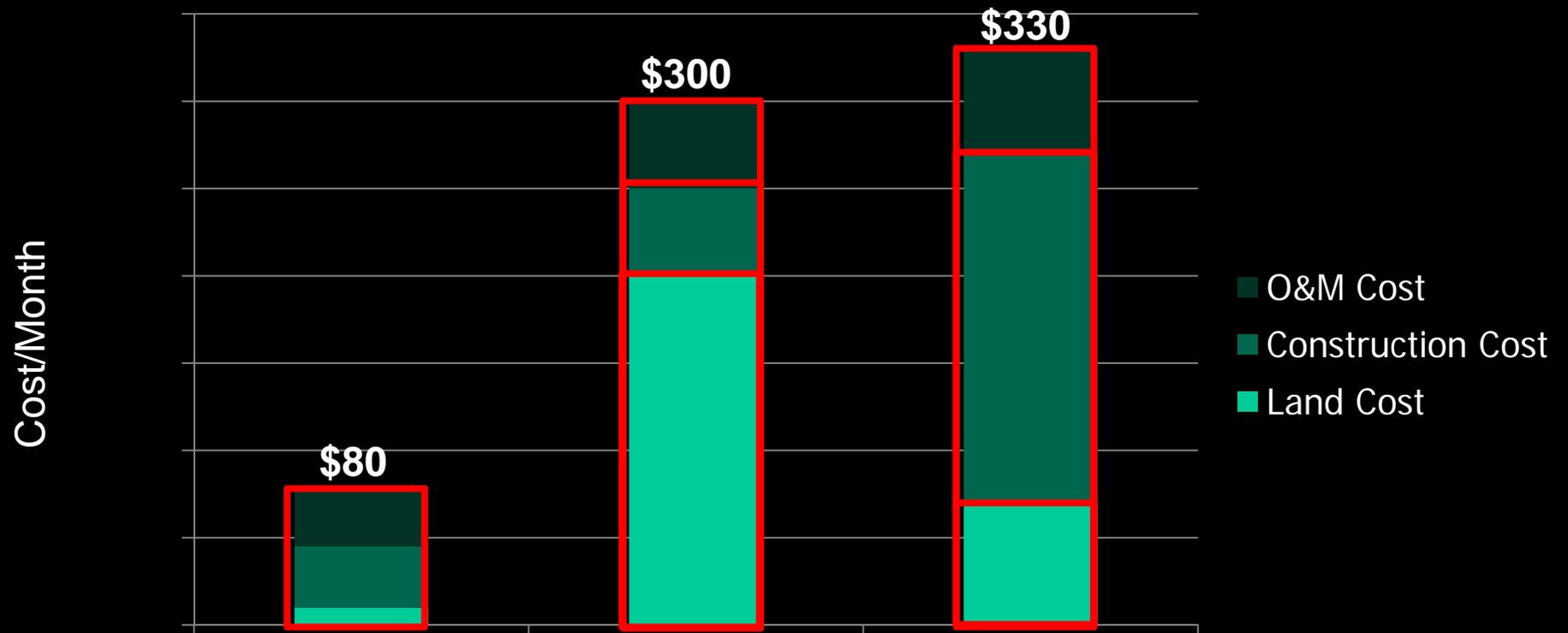
Location

Genentech South San Francisco





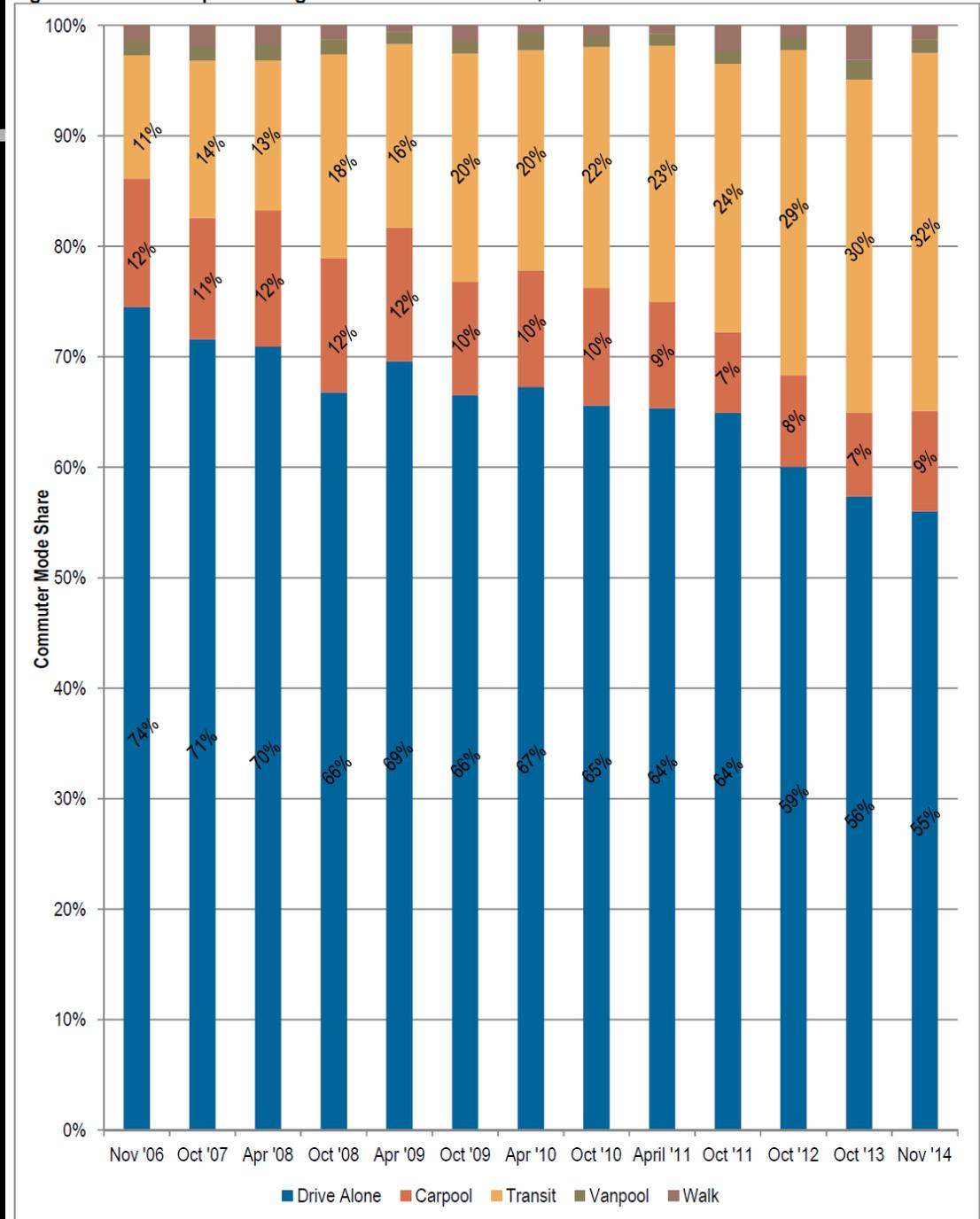
Parking Cost Break-Down



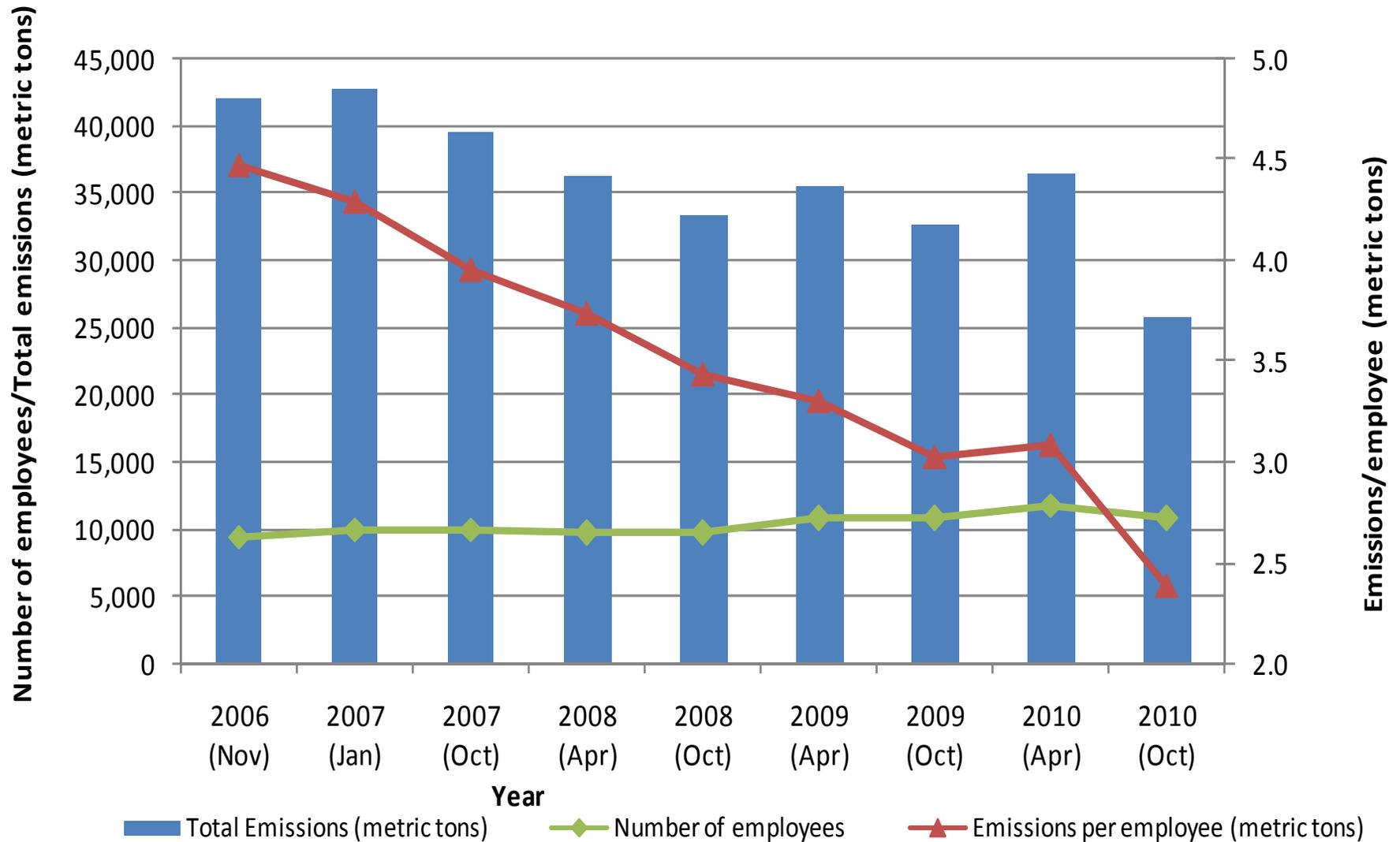
Source: Adapted from Victoria Transport Policy Institute, 2012

Results

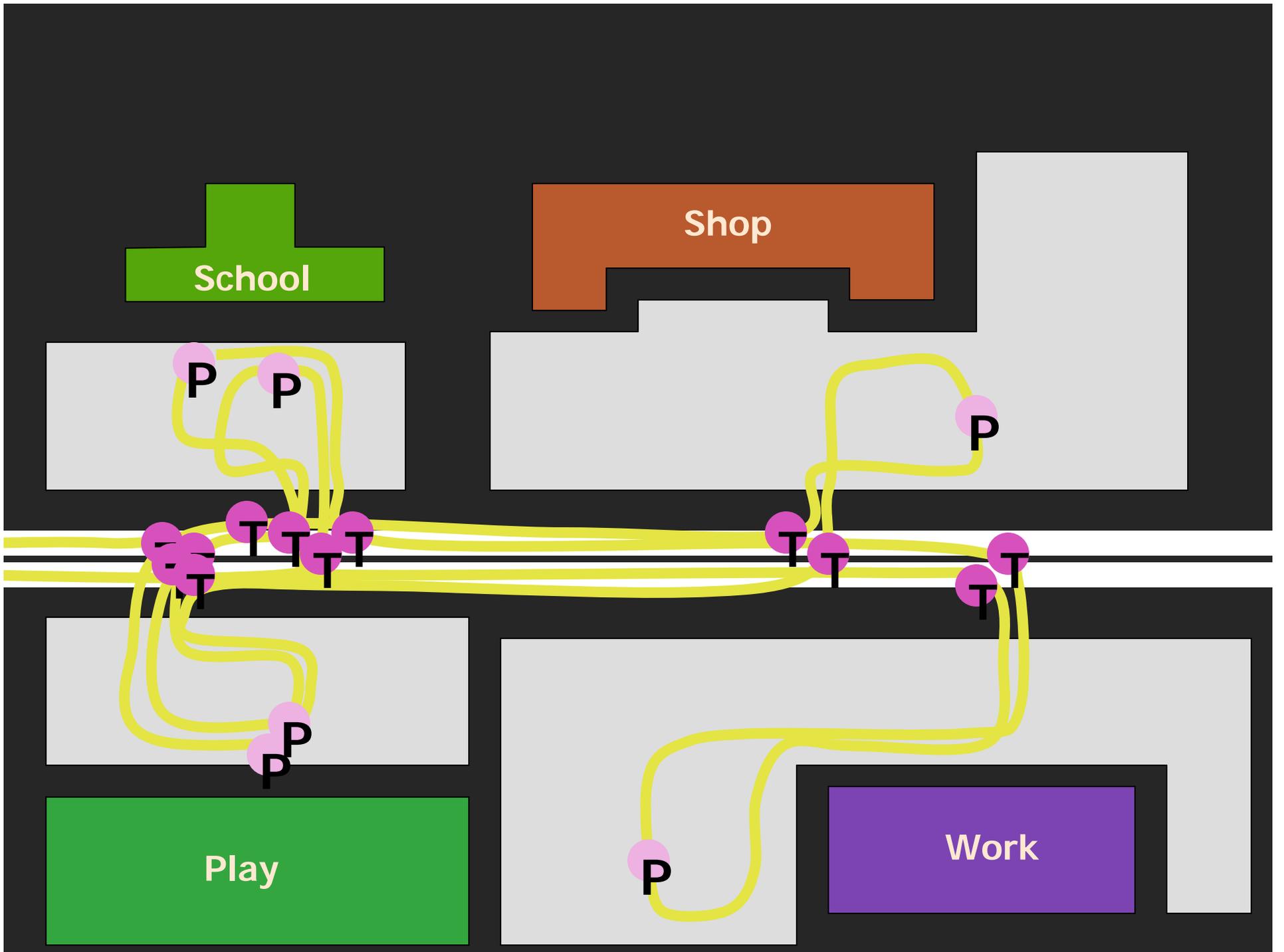
Figure 4 All Campuses Neighborhood Mode Choices, 2006 – Present



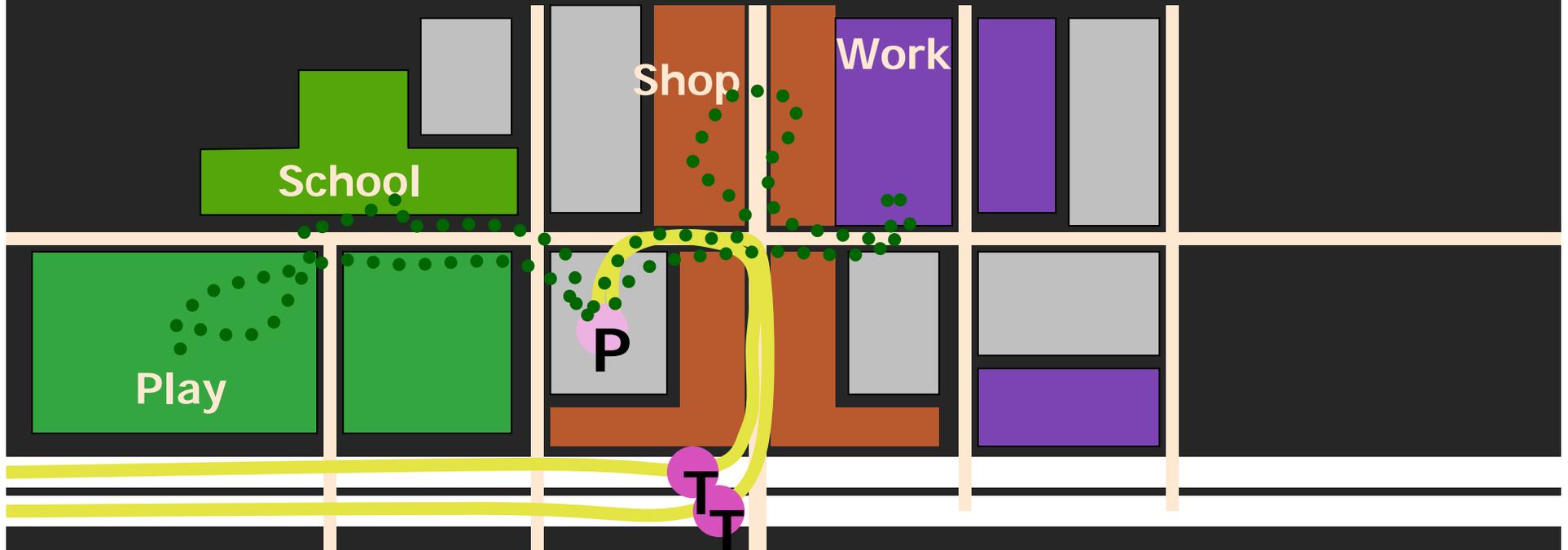
GHG Reduction Impacts by Year



5. Be Smart About Parking



Mixed Use, Park Once District



Results:

- $< \frac{1}{2}$ the parking
- $< \frac{1}{2}$ the land area
- $\frac{1}{4}$ the arterial trips
- $\frac{1}{6}^{\text{th}}$ the arterial turning movements
- $< \frac{1}{4}$ the vehicle miles traveled

**Align the mechanics of
governance
with your values**

**Align values with
budget**

**Beware costs in one account
and benefits in another**

Values

Goals

Objectives

Strategies

Performance Measures

Budget

Reporting



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