



10 Steps Toward a More Walkable, Sustainable Traverse City



Jeffrey Tumlin

Presentation Outline

1. Measure what matters
2. Fix your trunk roads
3. Adopt a good street design manual
4. Make walking a pleasure
5. Make biking safe and easy for everyone
6. Make transit fast, frequent, reliable, dignified
7. Make traffic analysis work
8. Focus on the demand side
9. Park once
10. Create a better vision

1. Measure what matters

- Transportation is not an end in itself
- It is merely a means by which we support individual and collective goals and objectives



How Transportation Meets Goals

- **Mobility:**

- Can I travel freely and easily to where I want to go?
- Reduce roadway congestion
- Increase transit frequency, reliability and speed
- Create bicycle lanes and complete sidewalks

- **Accessibility**

- Can I get the things and services I want?
- Bring people, goods and services closer together
- Mix uses
- Technology, delivery

Level of Service A





Level of Service C



Level of Service F

What's important depends upon perspective



Traffic engineer:

F

A

Economist:

A

F

Measure what matters

Why not Consider...

- Economic Development
 - Job creation
 - Real estate value increase
 - Retail sales
- Quality of Life
 - Access to jobs
 - Access to shopping
 - Residential property value impact
- Social Justice
 - Do benefits accrue equitably?
 - Are investments spread equitably?
- Ecological Sustainability
 - VMT per capita (=CO₂, NO_x, runoff, etc.)
 - Land use/transportation connection

2. Fix your trunk roads



Mountain View, CA

Image: Friedman Tung + Sasaki Urban Design



Mountain View, CA

Image: Friedman Tung + Sasaki Urban Design

creation!
27, 2006, 6-9pm
FOR INFO CALL: 903-6331

THEATRE,
DANCE, MUSIC
& MORE!
www.mvll.org



Mountain View, CA

Image: Friedman Tung + Sasaki Urban Design



Lodi, CA

Image: Friedman Tung + Sasaki Urban Design



Lodi, CA

Image: Friedman Tung + Sasaki Urban Design



Lodi, CA

Image: Friedman Tung + Sasaki Urban Design



Livermore, CA



Livermore, CA

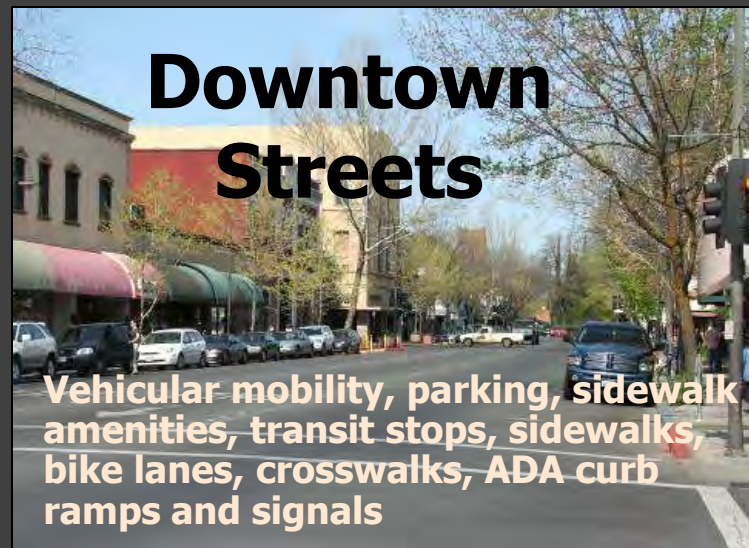
Image: Friedman Tung + Sasaki Urban Design



Livermore, CA

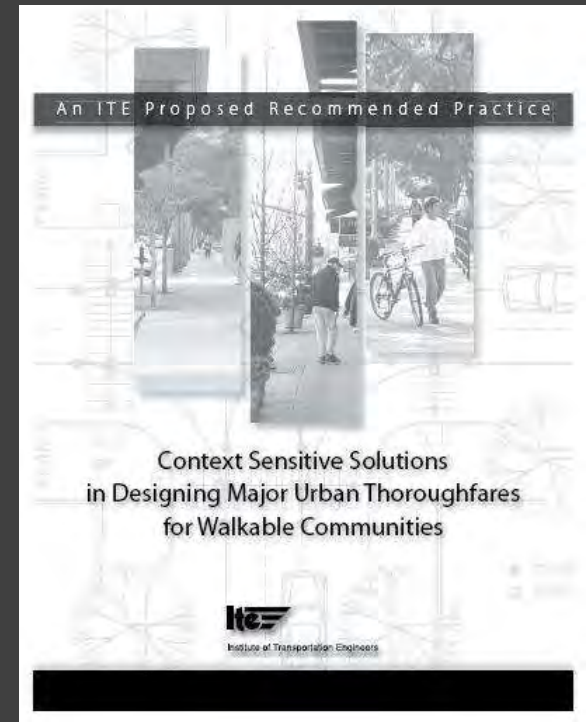
Image: Friedman Tung + Sasaki Urban Design

3. Adopt the right street design manual

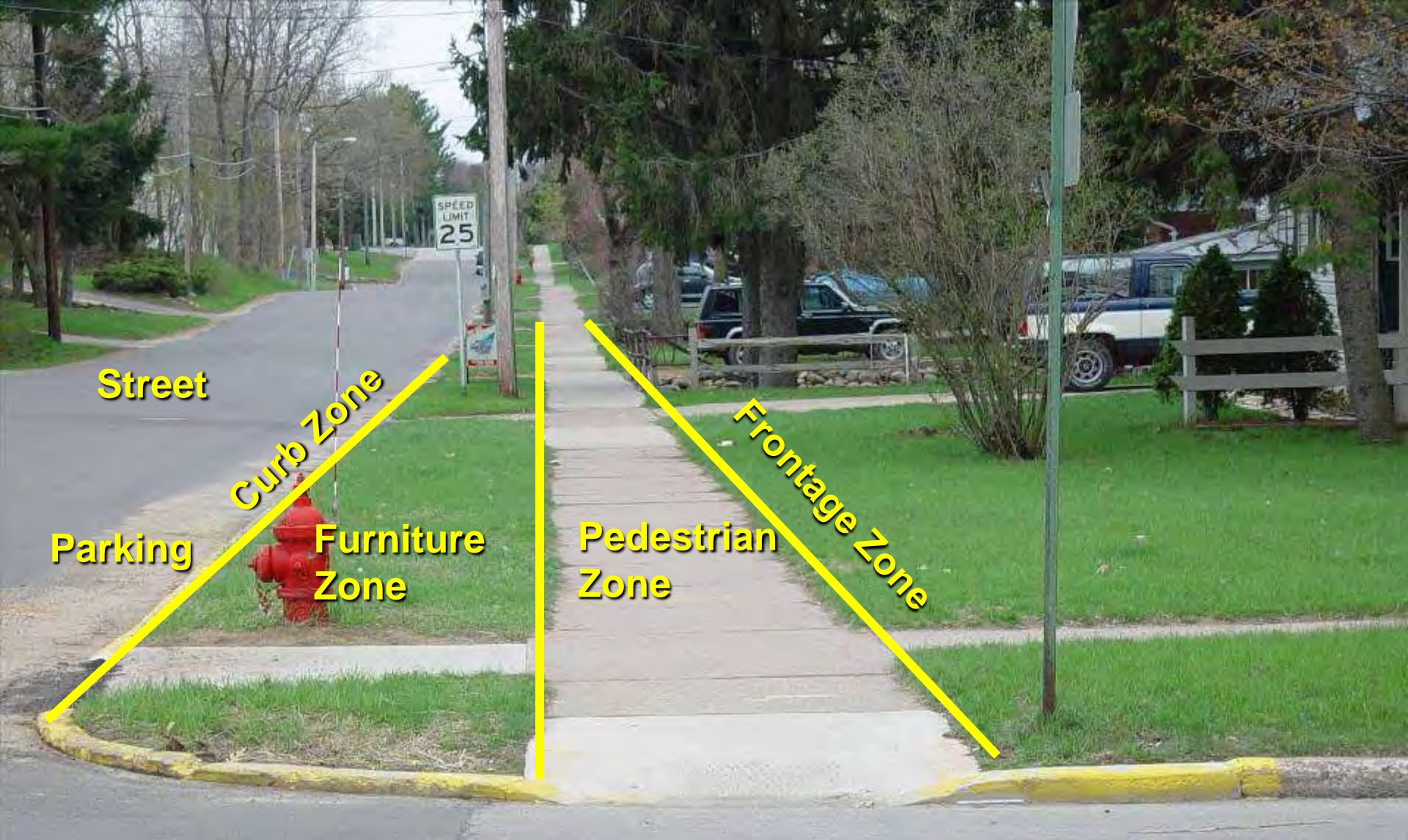


Adopt *urban* street guidelines

- **ITE *Context Sensitive Solutions***
 - Free at ite.com/css
 - Best for arterials
- **ITE *Residential Streets***
 - Best for residential streets
- **NACTO**
 - Free at nacto.org
 - Bikeways available now. Urban Street Design Manual out soon.
- **Steal from other cities**
 - SF, Boston, Indianapolis, NYC



4. Make walking a pleasure



4. Make walking a pleasure





Tree-cover
rating:

81%

Median
household
income:

\$205,750



Tree-cover
rating:

64%

Median
household
income:

\$78,523



Tree-cover
rating:

48%

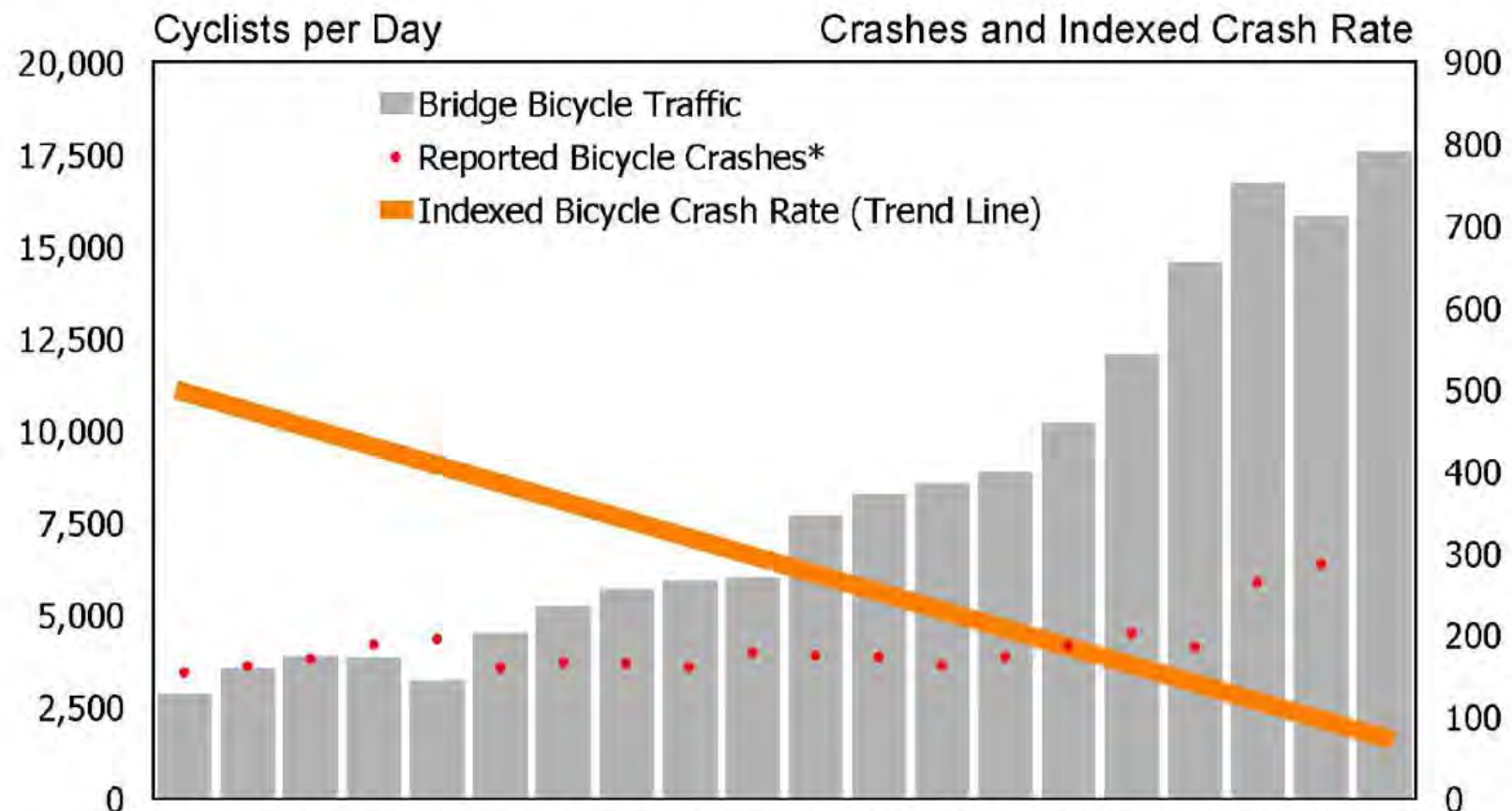
Median
household
income:

\$36,250

5. Make cycling comfortable for all ages



Combined Bicycle Traffic over Four Main Portland Bicycle Bridges Juxtaposed with Bicycle Crashes



	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Bridge Bicycle Traffic	2,850	3,555	3,885	3,830	3,207	4,520	5,225	5,690	5,910	6,015	7,686	8,250	8,562	8,875	10,192	12,046	14,563	16,711	15,794	17,576
Reported Bicycle Crashes*	155	163	171	189	195	160	167	166	161	179	175	173	164	174	188	203	186	265	287	*
Indexed Bicycle Crash Rate (Trend Line)	544	459	440	493	514	354	320	292	272	298	230	210	192	196	184	168	128	159	182	*
Bicycle Fatalities	2	0	4	3	2	1	5	3	0	0	5	0	4	1	4	0	6	0	4	*

Source: Roger Geller

Strong & Fearless

Will ride regardless of facilities
Trip distance not an issue

No way No How

Enthused & Confident

Comfortable in traffic with
appropriate facilities
Prefer shorter trip distances

Interested but Concerned

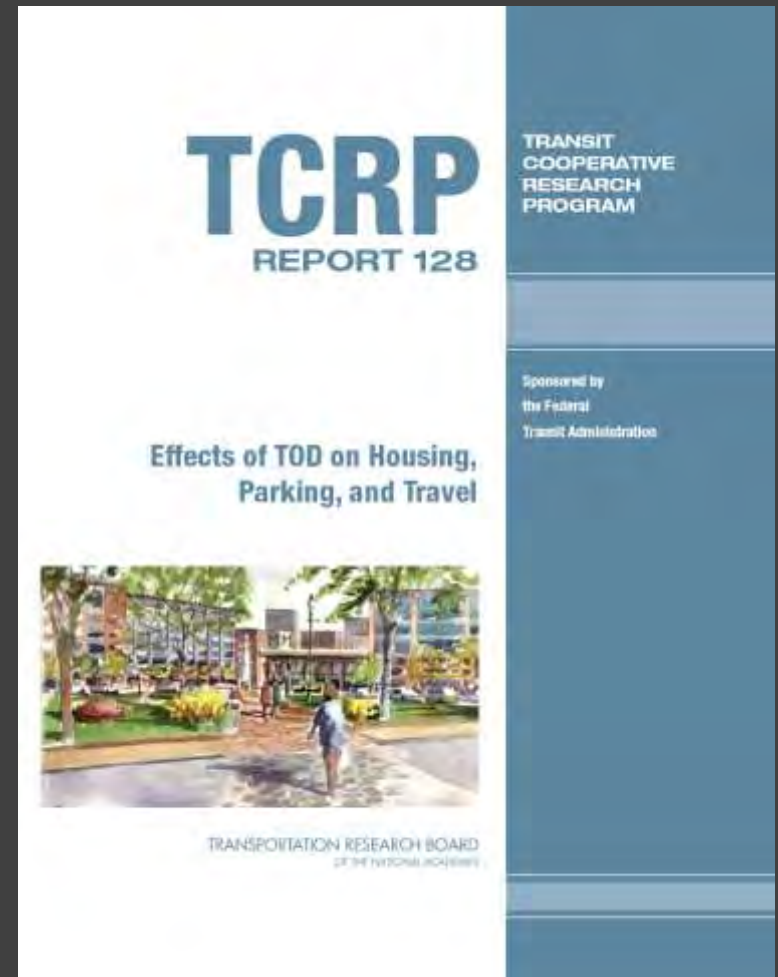
Not attracted by bike lanes
Not comfortable in traffic
Will ride in low-volume, low-speed
conditions (boulevards, off-street)



**6. Make Transit Fast, Frequent,
Reliable, and Dignified**

7. Make traffic analysis smart

- To be “conservative,” transportation analyses typically use ITE trip generation rates, data from isolated, single-use projects with no access except by car.
- TODs typically generate ~50% fewer vehicle trips than predicted by ITE. (“Effects of TOD on Parking, Housing and Travel,” TCRP 128, 2008)
- Guidelines focus on localized traffic impacts and ignores regional impacts.



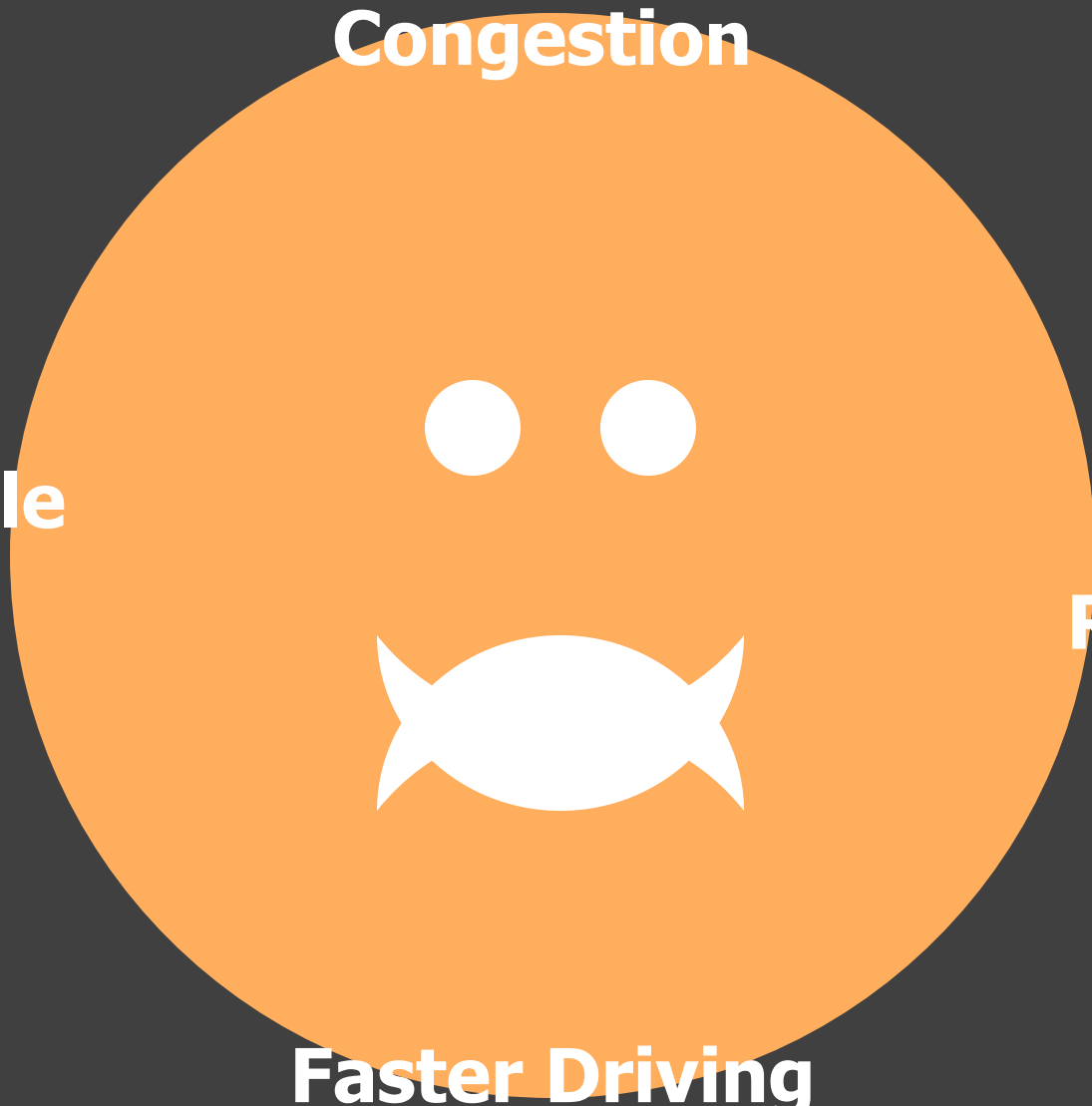
Induced and Latent Demand

Congestion

**More People
Drive**

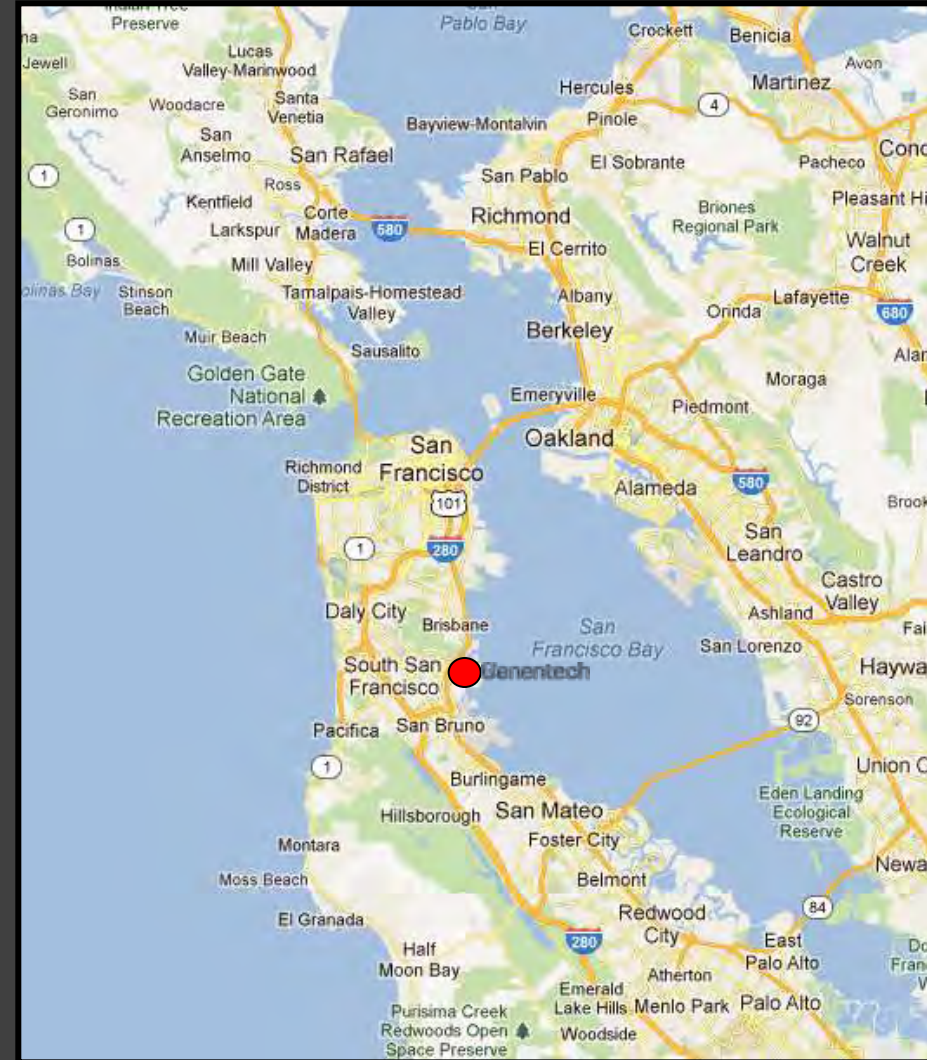
**Widen
Roadway**

Faster Driving



8. Pay attention to the demand side

Genentech South San Francisco

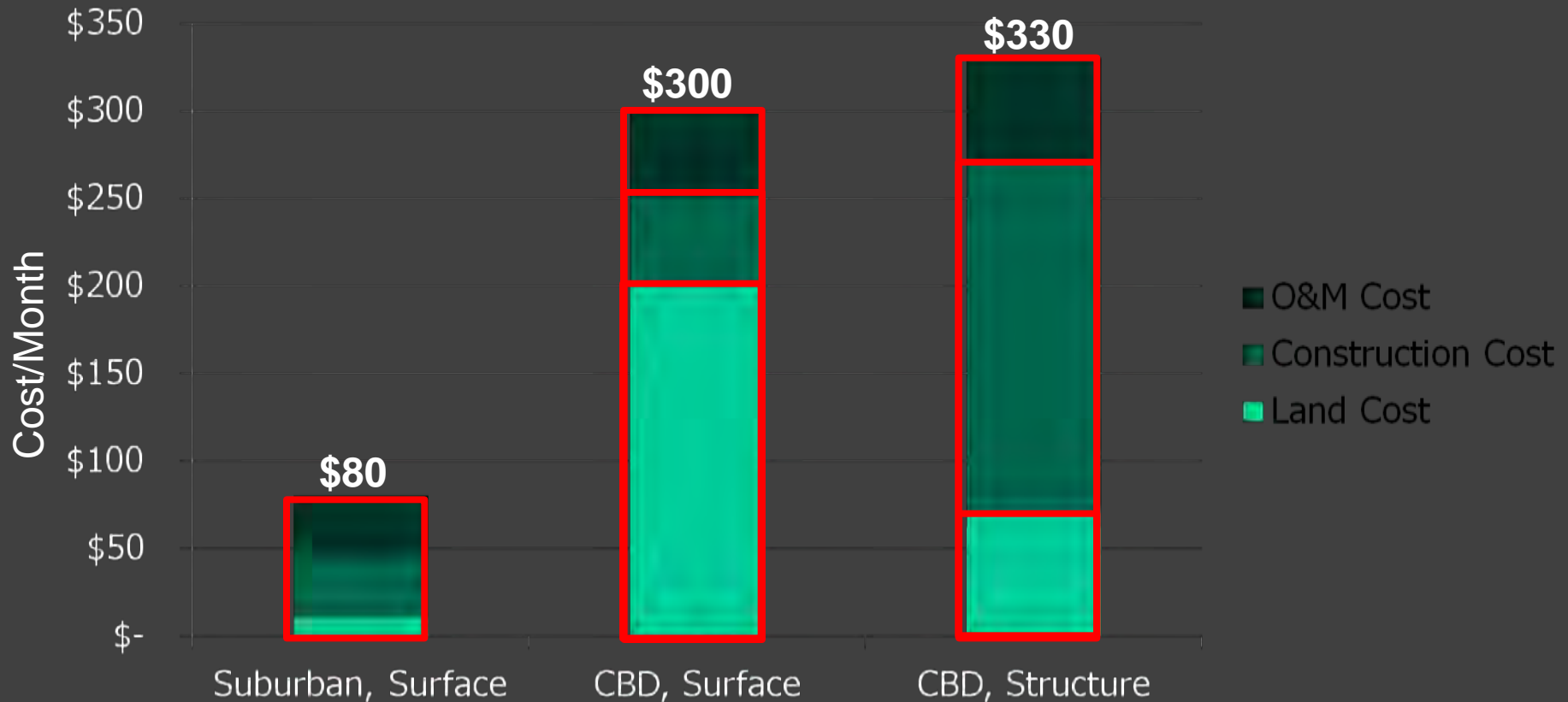


Google Maps

Case Study: Genentech

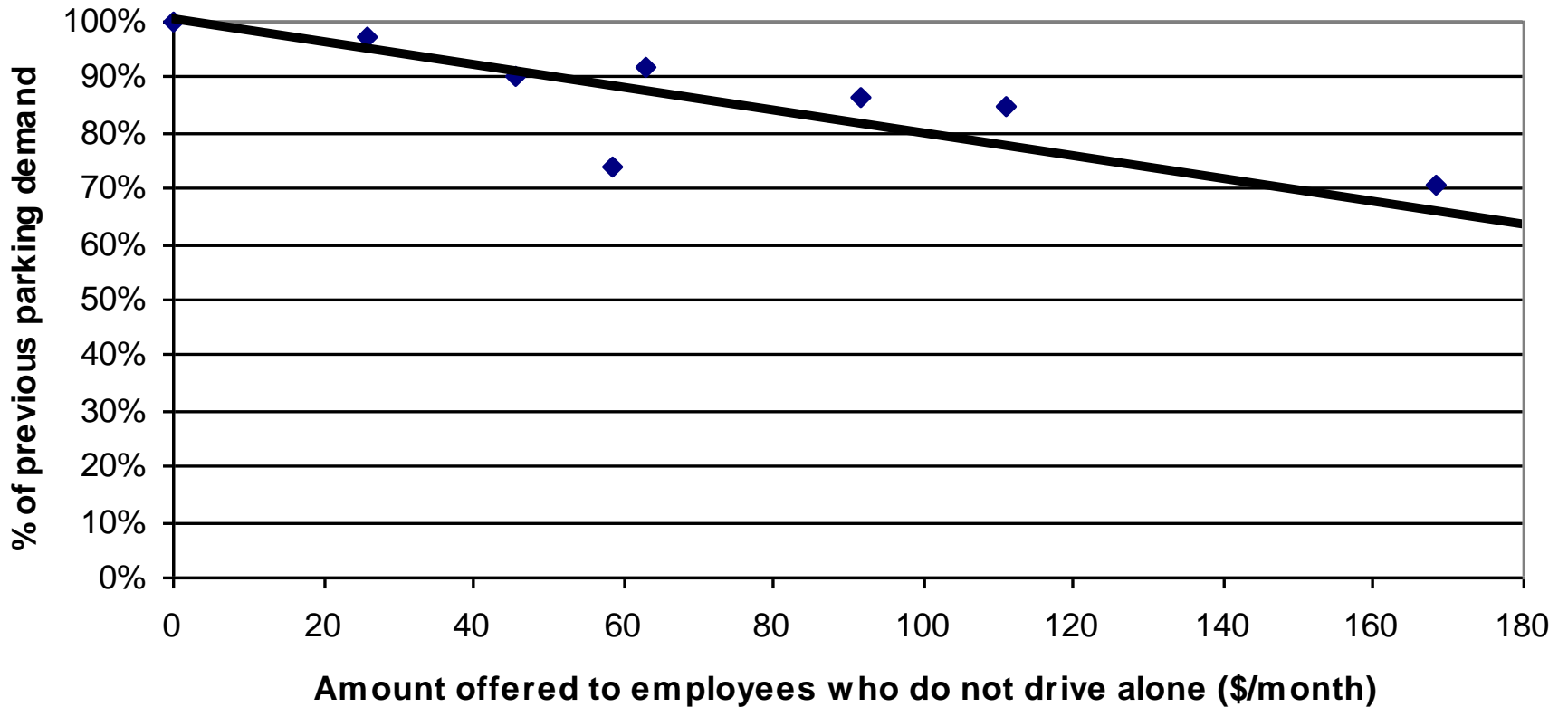


Parking Cost Break-Down



Source: Adapted from Victoria Transport Policy Institute, 2012

Parking Cash Out Reduces Parking Demand



gRide Program

- 64% of employees reside in San Mateo or San Francisco counties
- Over 6,000 out of 8,500 SSF eligible employees are registered members in the gRide program
- Over 3,000 employees are active gRide users who average 13 gRide commute days per month



GenenBus

- Focused service on areas with
 - No viable public transit alternatives
 - Longer, more arduous and costly commutes
 - high density SF neighborhoods
- 38 GenenBuses serving 27 commuter routes with over 3,500 riders per day



gRide Assistance



- Employees can contact gRide for help with programs, personalized commute planning, or any other questions they might have.

- gRide Hotline: 6:00 AM to 7:30PM
- Simple Email address to gRide team
- gRide website
- gRide iPhone App with schedules
- SMS Text Alerts
- gRide FAQs, discussion forum, gRide Blog

Business Drivers

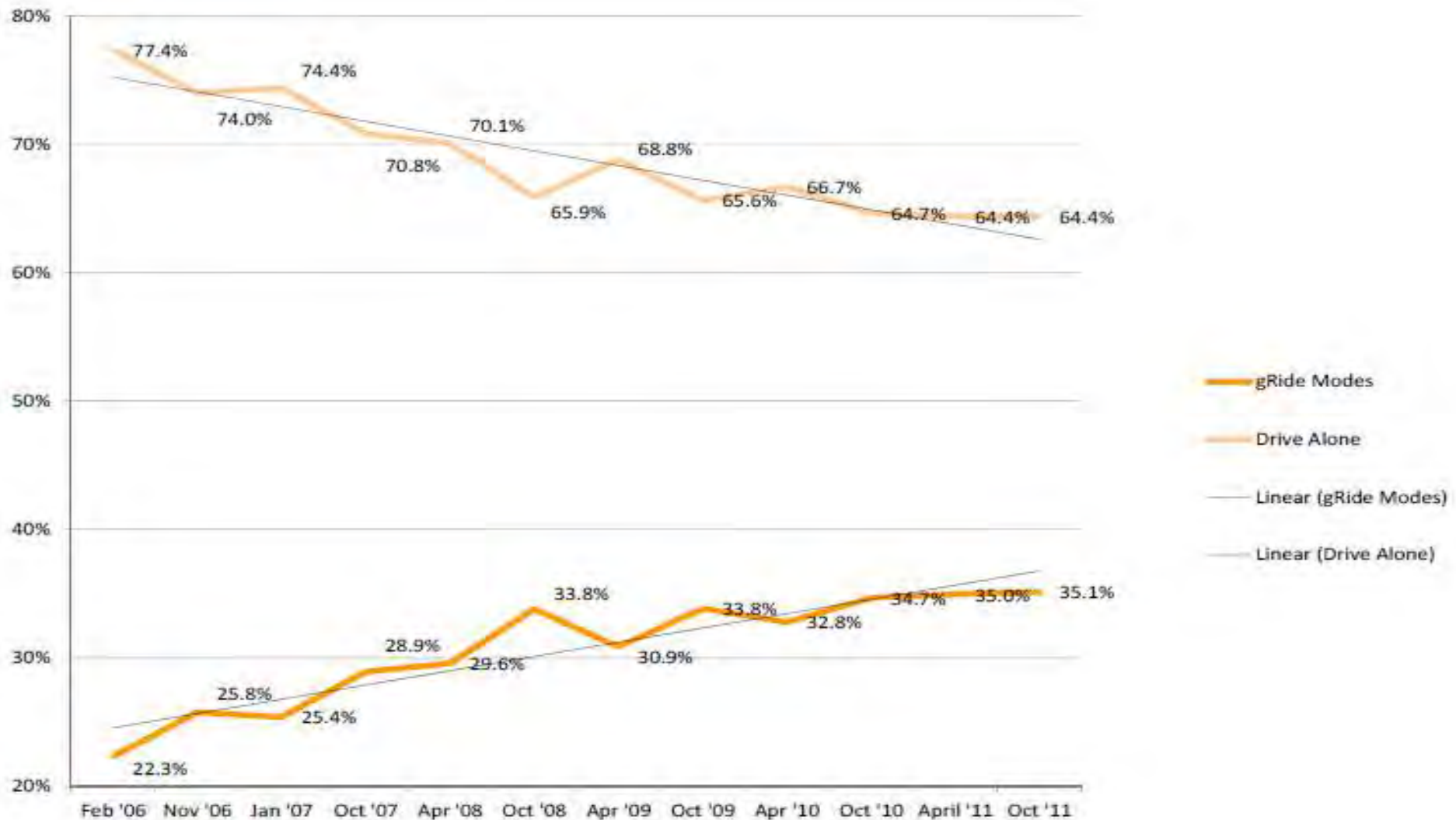
- **Productivity enabler**

- >12,000 GenenBus WiFi sessions per month:
 - ~\$2M gained productivity
- DNA intra-campus shuttle facilitates face to face meetings

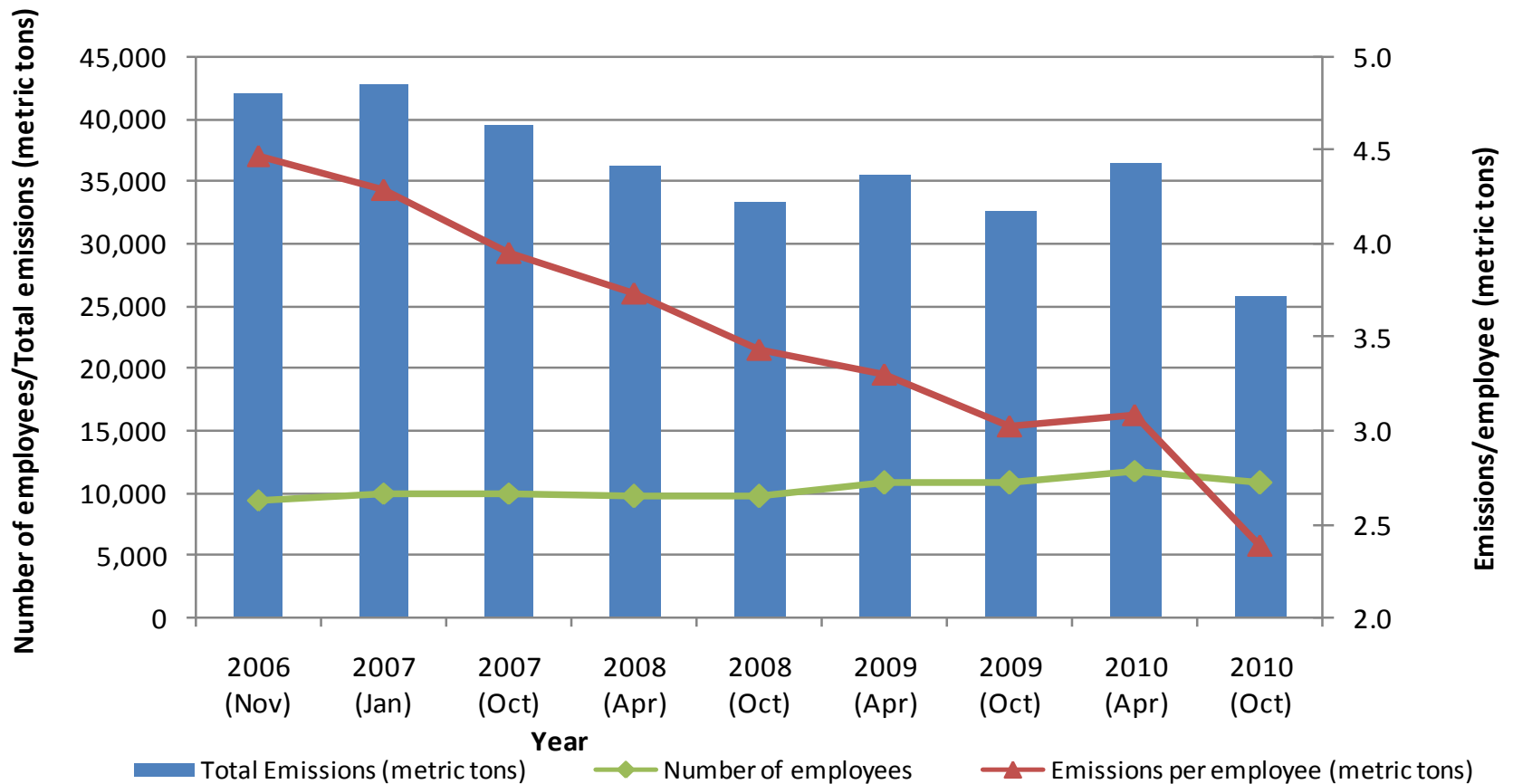
- **Carbon Footprint**

- ~12.5% of GNE CO2 emissions are from commute travel
- gRide has eliminated over 63.4 million lbs. of CO2 since program launch

gRide and Drive Alone Rates 2006-Present



GHG Reduction Impacts by Year



9. Park Once

1. Eliminate minimum parking requirements
2. Create a “Park Once,” shared parking environment
3. Charge the right price for curbside parking
4. Manage parking in order to achieve development and congestion management goals context and goals

Smart Meters



Smart Technology



Downtown Parking Map

Right Price



LEGEND

- Free every evening and all day Saturday and Sunday
(See signs at these facilities for details)
- First 1.5 hours Free or
First 4 hours Free with a validation from Century Theatres
(See signs at these facilities for details)
- 25¢ per hour, Monday - Friday, 10am to 6pm
(FREE after 6:00pm and all day Saturday and Sunday)
- 25¢ per hour, Monday - Saturday, 10am to 6pm
(FREE after 6:00pm and all day Sunday)
- 50¢ per hour, Monday - Saturday, 10am to 6pm
(FREE after 6:00pm and all day Sunday)

(ALL RATES AND HOURS SUBJECT TO CHANGE)

Updated on 6/19/08

Right Time

Hours of Operation

Sunday - Thursday

11 AM to 8 PM

Friday - Saturday

11 AM to 12 midnight

Except Holidays

Invest Revenue

**A NEW
OLD PASADENA
COMING SOON**

STREET AND ALLEY WAY IMPROVEMENTS:

- LIGHTING**
- REPAVING**
- TRASH RECEPTACLES**
- SIGNS AND BENCHES**
- DIRECTORY MAPS**
- TREES AND GRATES**
- NEWSRACKS**
- MAINTENANCE**
- SAFETY**

**YOUR METER MONEY IS
MAKING A DIFFERENCE**

THE OLD PASADENA RENAISSANCE CONTINUES

CITY OF PASADENA



Unbundle and Share

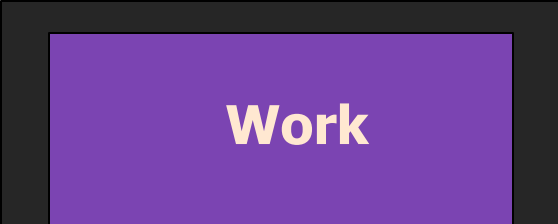
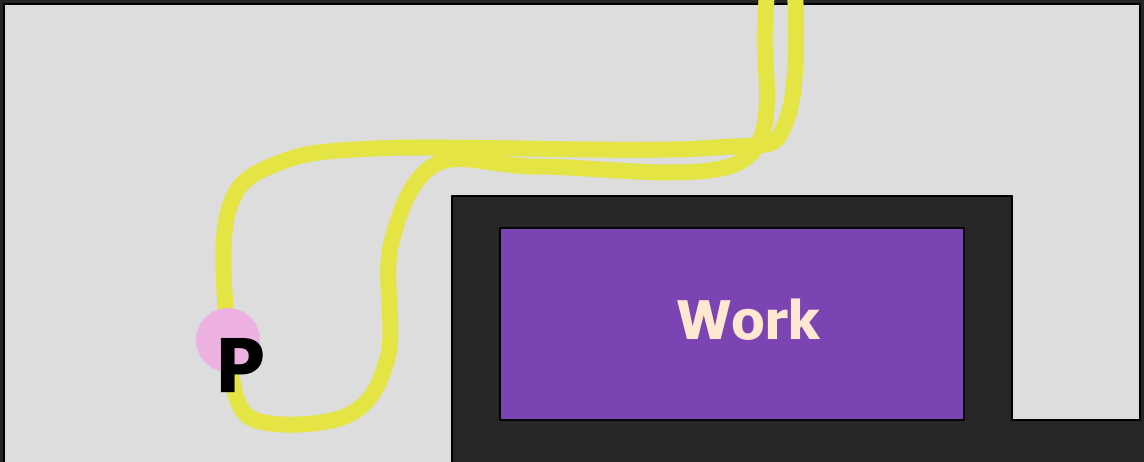
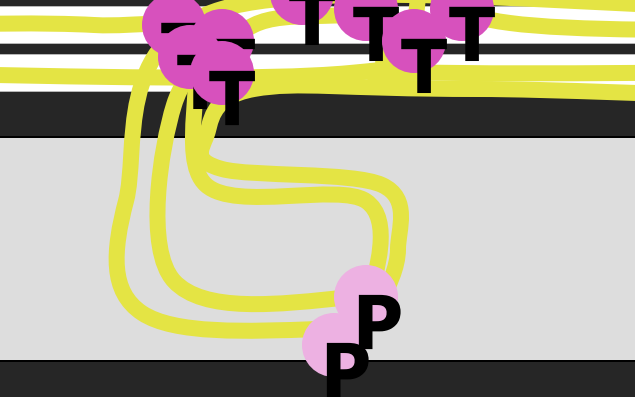
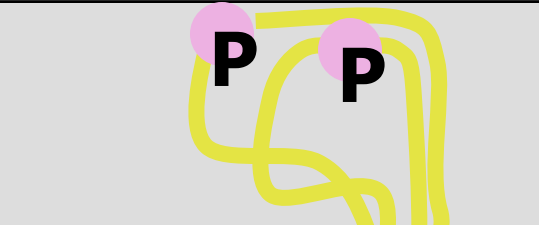
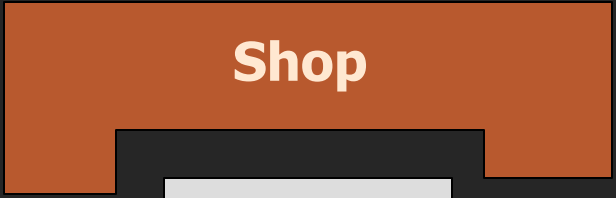


UPPER	7-11
MIDDLE	7-11
LOWER	7-11

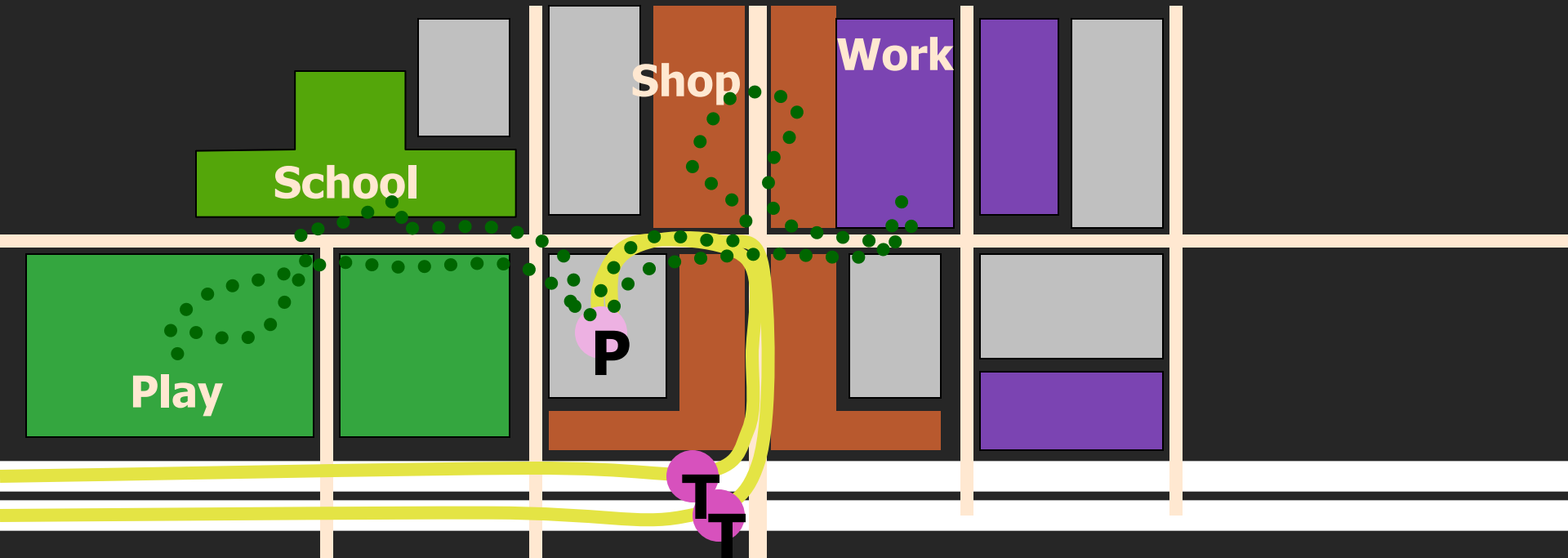
City CarShare
CITY CARSHARE
PARKING ONLY
City CarShare
www.citycarshare.org

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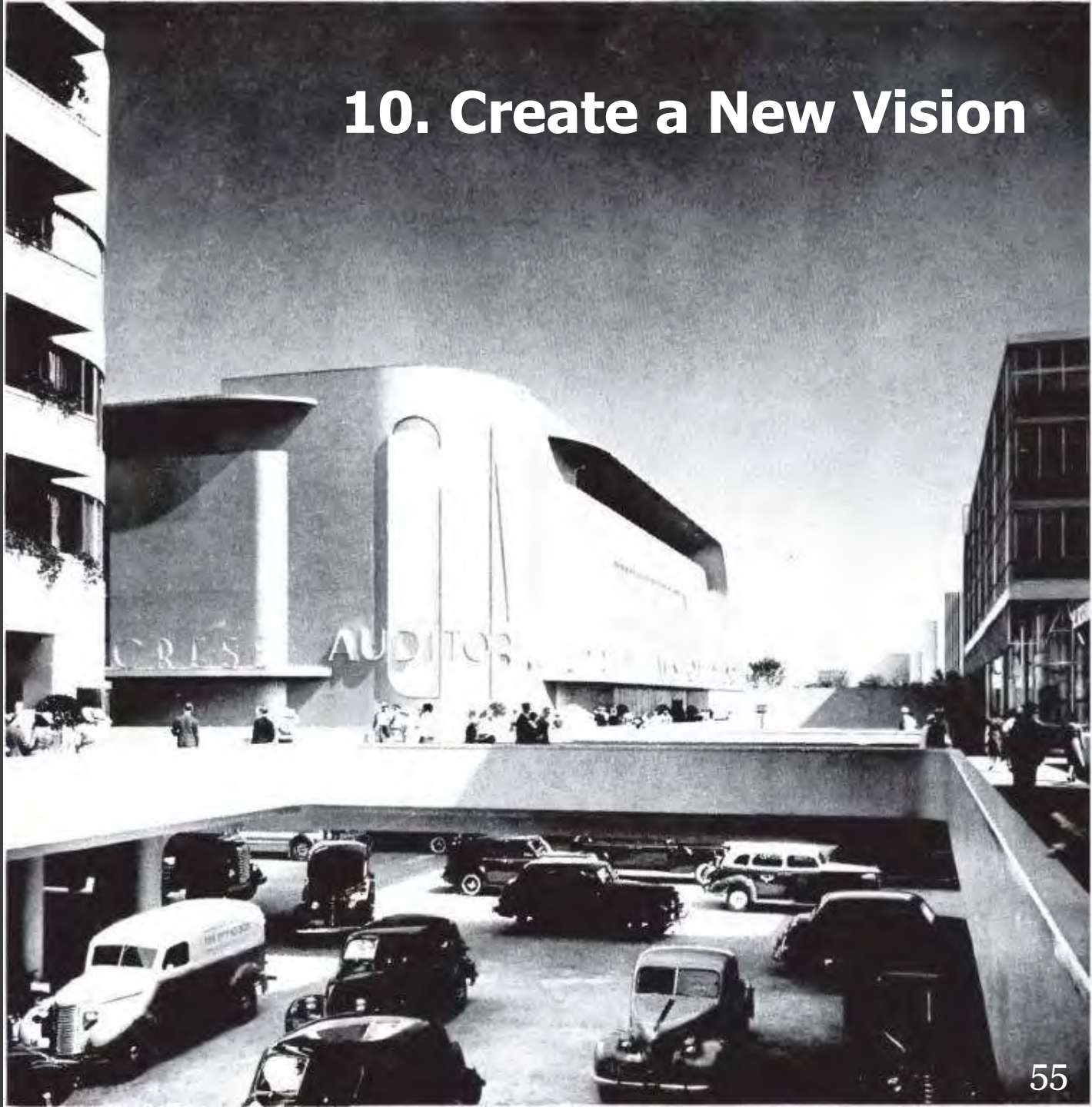
Mixed Use, Park Once District



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

10. Create a New Vision







The Eternal Triangle.

You'd think Ralph's new love would have been curtains for me. I mean, it was all he talked about. Well, I learned to live with it. As it turned out, I think his new Charger R/T really

brought us closer together. He's taught me how to shift the 4-speed synchromesh. He lets me pick out the stereo tapes. And clean the vinyl buckets. It's not all bad. He even mentioned marriage once.

DODGE fever
The Catch of The Year

horsepower. 100 mpg. Pure Sensuality.

PURE DRIVING PASSION



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Mother Nature doesn't go out of her way to pun-
per a car. And neither do most car owners.

That's why Subaru builds and tests its cars to meet
the demands of everyday driving situations.

In fact, Subaru undertakes extensive road testing
here in America. On roads you'd love to. And in
weather conditions you'd love to.

Maybe that's why, out of every Subaru registered
in the U.S. since 1974, over 98% are still on the road.* And
why Subaru was named #1 in customer satisfaction
300000 times by Mercedes-Benz.

So, about any conditions you have to get
your Subaru through, it's most probably been there before.

*Based on a study by J.D. Power and Associates, Inc. (J.D. Power and Associates, Inc. 2000).
†Based on a study by J.D. Power and Associates, Inc. (J.D. Power and Associates, Inc. 2000).

See us online at www.subaru.com.

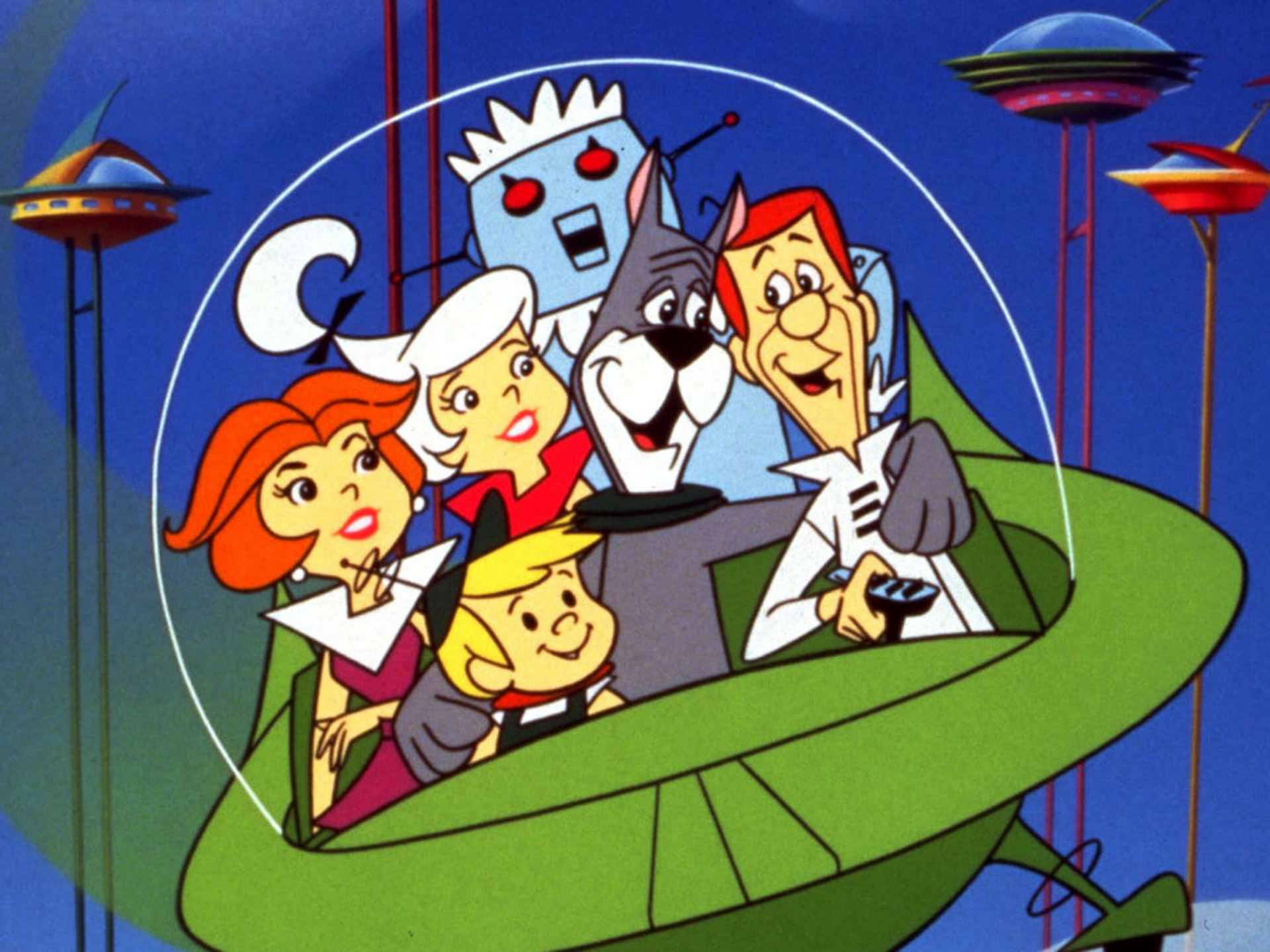


**A CAR BUILT TO
WITHSTAND
MOTHER NATURE.
AND HUMAN NATURE.**

SUBARU.

Inexpensive. And built to stay that way.

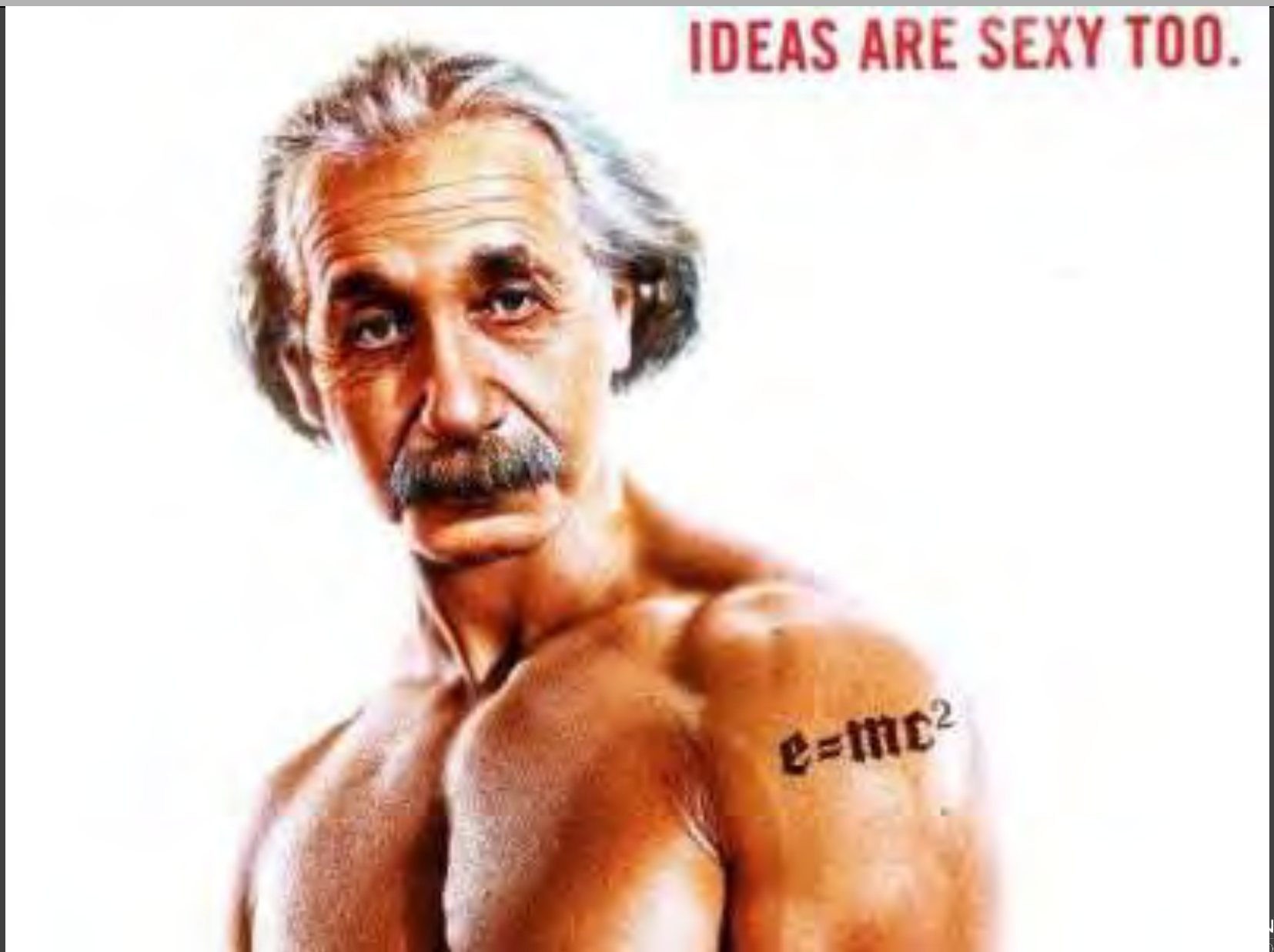




It's not sustainable if it's not beautiful



Toward a Better Vision?



For More Information

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