

Adding Growth Without Adding Car Trips

Ramses Madou
SPUR San Jose, May 12th

Transportation Demand Management

Altering the economy of transportation choices to achieve a more efficient use of resources

But what about the infrastructure....

Supporting conditions

Legal Constraints

- Entitlements (General Use Permit)

Leadership support

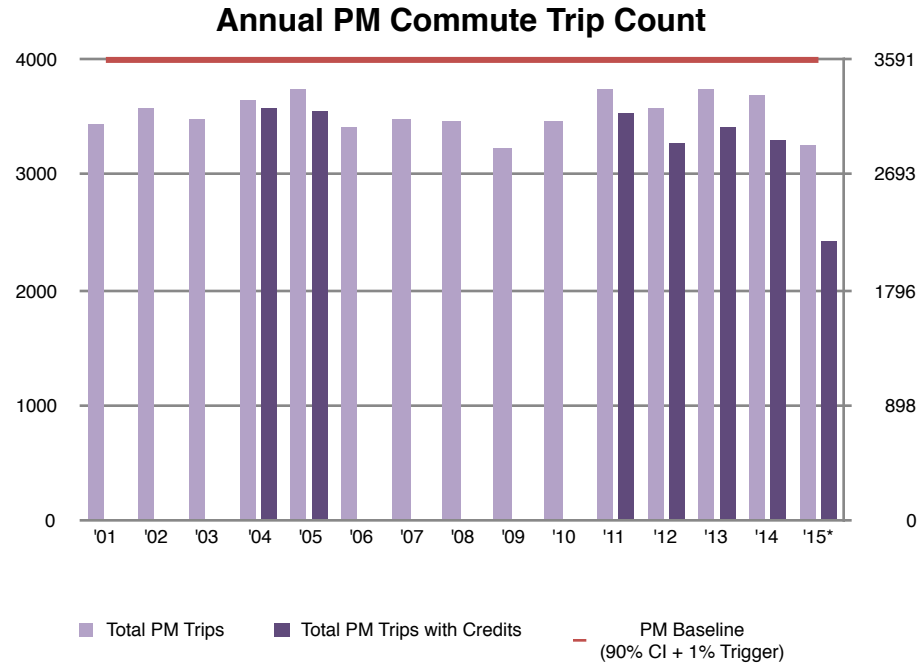
- Legal pressure helps

Environmental support

- Regional transit connections needed OR build your own system at very high cost

2000 General Use Permit (GUP)

- Trip cap: no net new trips



Reducing drive-alone commuting

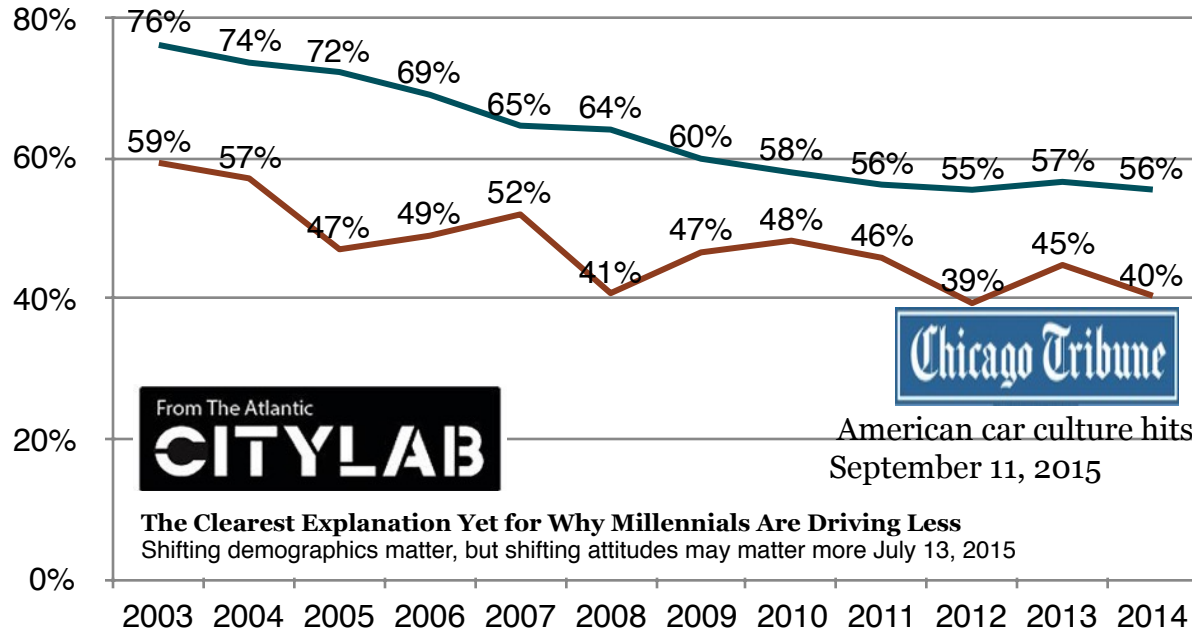
- Incentives and behavior change
 - › Commute Club (over 9,000)
 - Clean Air Cash
 - Carpool Credit
 - › Free and discounted transit
 - Caltrain Go Pass, VTA Eco Pass
 - ACE and East Bay Express service
 - › Last mile – Marguerite
 - › Carpooling/vanpooling incentives
 - › Zipcar credits and car rental vouchers
 - › Emergency Ride Home
 - › Folding bike subsidy
- Marketing and outreach
 - › Campaigns & Promotions
 - Free Parking with Ride
 - Commute photo contest



L.A. Cicero/Stanford News Service



Graduate Student Transportation Trends



From The Atlantic
CITYLAB

Chicago Tribune

American car culture hits skids with Millennials
September 11, 2015

The Clearest Explanation Yet for Why Millennials Are Driving Less
Shifting demographics matter, but shifting attitudes may matter more July 13, 2015

— ES Permits to Beds ratio — Graduate Commuter SOV Rate

EV Residential Transportation Demand Management

- Transit hub
 - › Dedicated on site bus bays
 - Car share
 - › Zip car
 - › Enterprise
 - Bike facilities
 - › ~2,000 bike racks
 - › Bike repair station
 - › Mini-bike shop
 - Improve active transportation connections
- Shared economy support
 - On site facilities under consideration
 - › Grocer
 - › Café/bar
 - › Study space
 - › Community room



Regional projects we are watching

- Santa Clara County transportation ballot measure
- SPUR report on transit integration
- Dumbarton Corridor Study
- CalTrain Electrification (High Speed Rail)



Regional Transportation: An Employer's Perspective

May 2016

Jeral Poskey





Googlers commute from all over the Bay Area

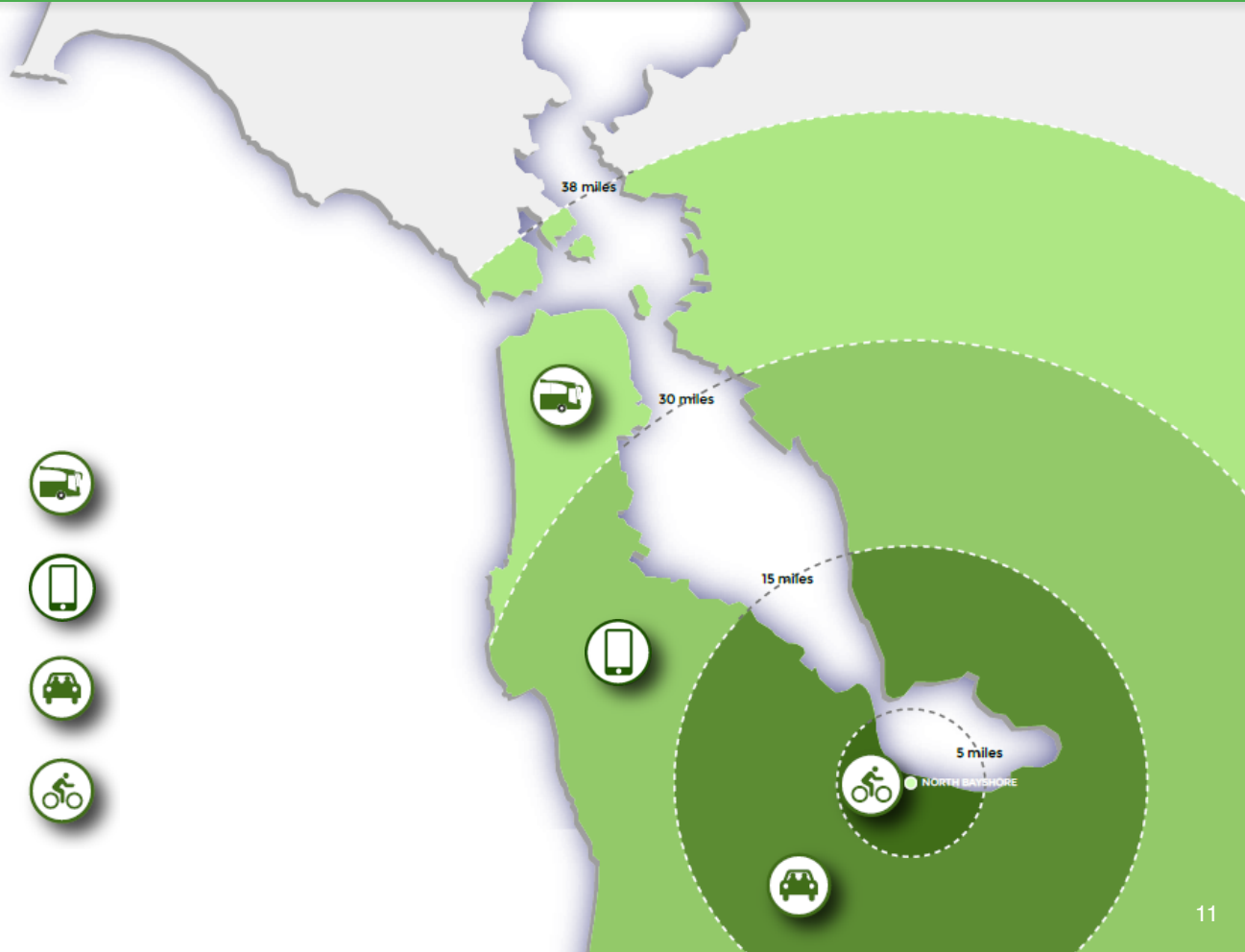
Enriching the employee experience by focusing on work, home and the connections in between

60% of Googlers live in the South Bay



Reach of transportation solutions

- LONG DISTANCE SHUTTLE 
- RIDESHARE, LOCAL SHUTTLES & MOBILITY SERVICES 
- DRIVE 
- BIKE 



Google's shuttle program

8,000 daily shuttle riders

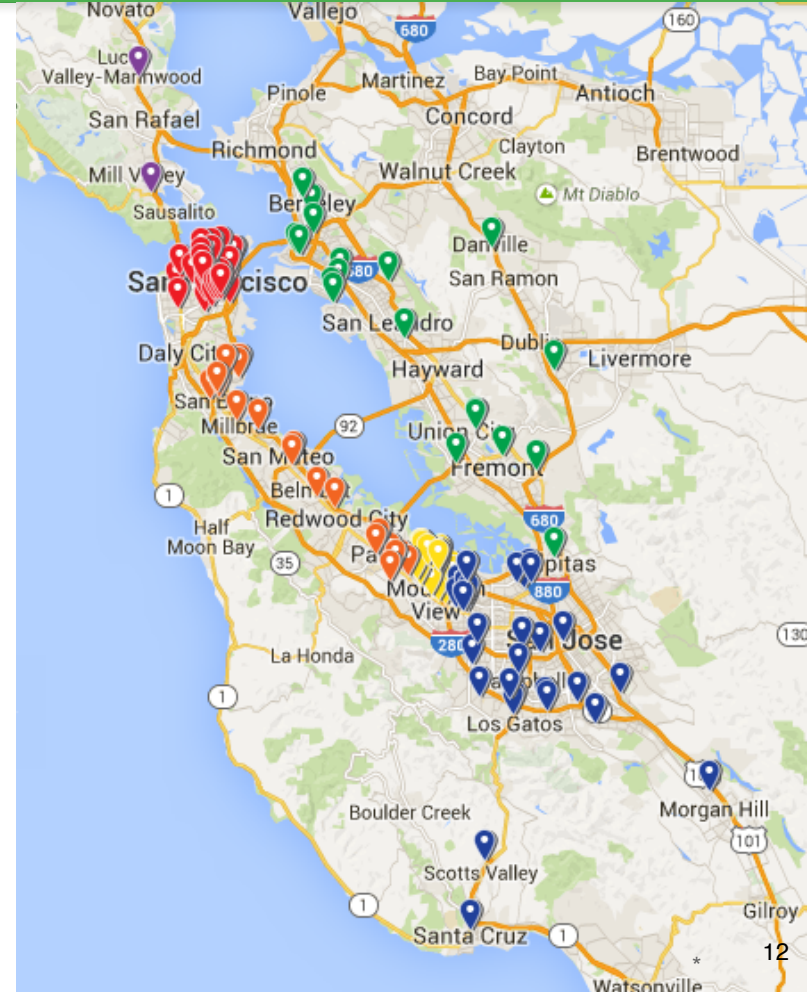
16,000 total daily trips

3,000,000+ total rides in 2014

200 buses serving 600+ daily departures

100 shuttle stops in 7 Bay Area counties

400+ intra-campus connectors running daily



BICYCLES



4,000 community bicycles
500 e-bikes

VANPOOLS / CARPOOLS



570,000 miles driven in 2014

EV CHARGING



1,100 charge ports
268,000 charging sessions

Google as transportation innovator



Near-distance bike challenge

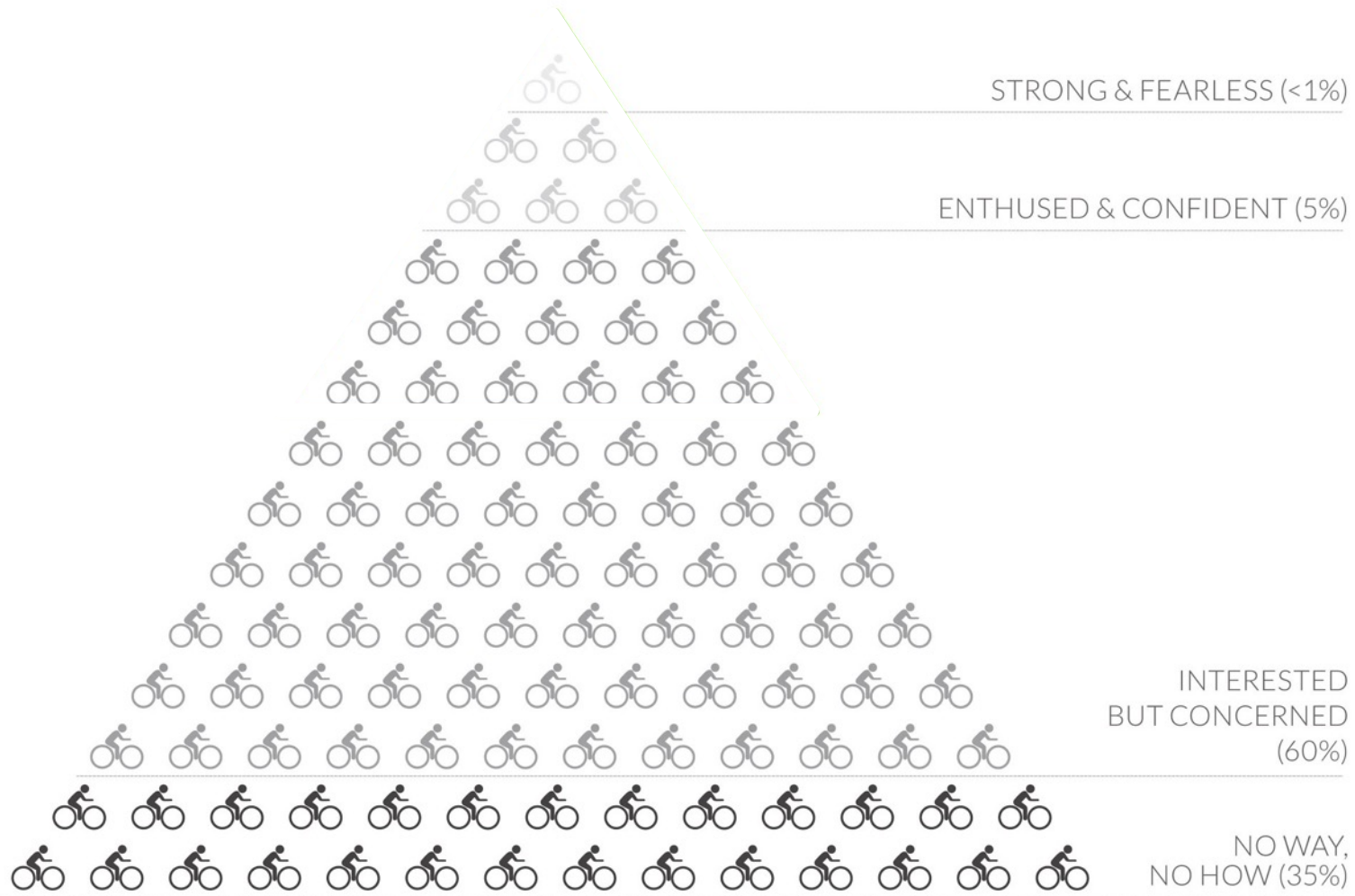
Two factors:

- Ability
- Access

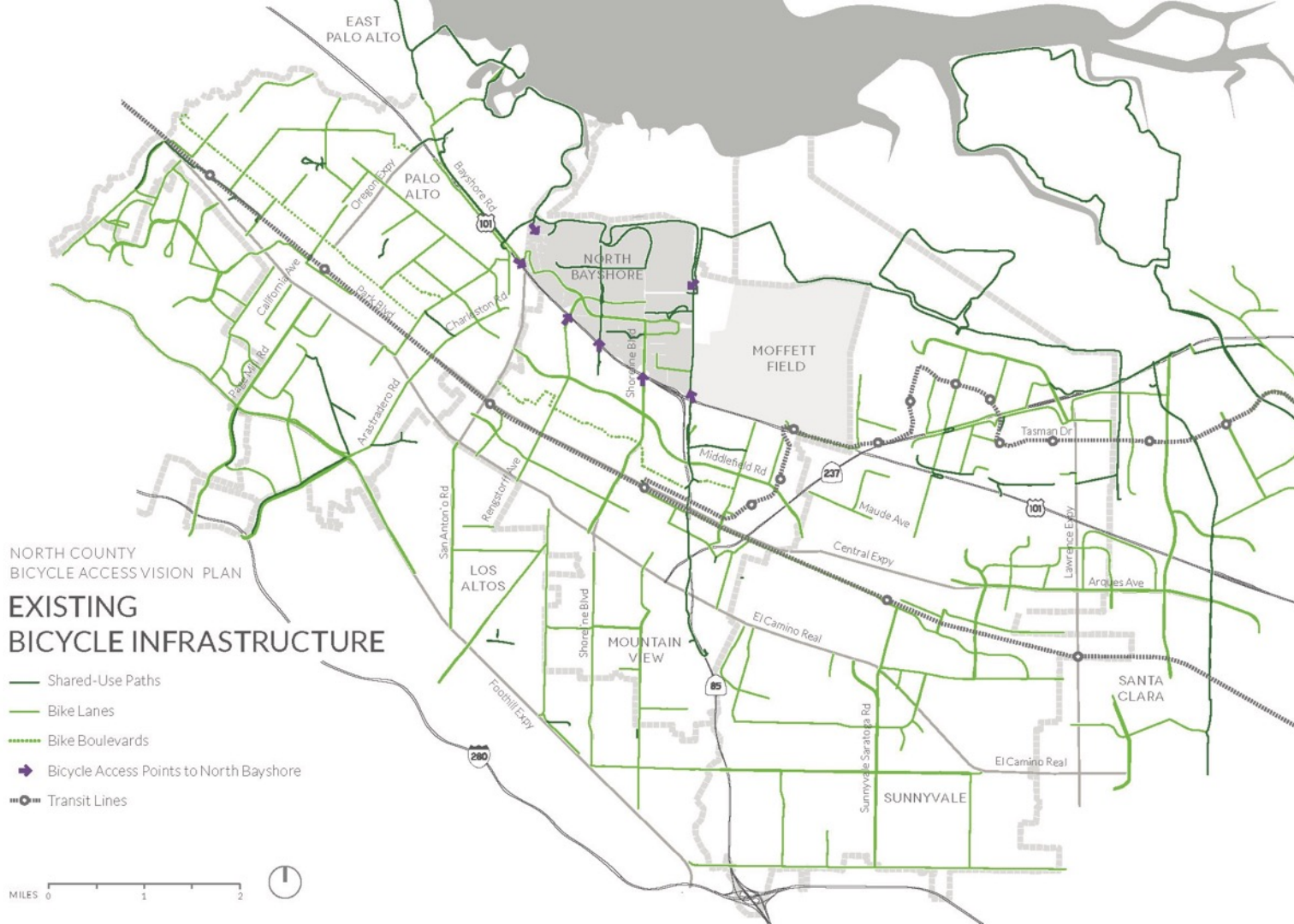
ABILITY



ACCESS



ACCESS

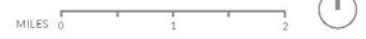




REALITY

NORTH COUNTY BICYCLE ACCESS VISION PLAN MAJOR ACCESS BARRIERS FOR BICYCLISTS

- ACCESS BARRIERS**
- Freeways
 - Transit Lines and Stations
 - Creeks
- STRESSFUL ROUTES**
- Challenging Crossings
 - Moderate Bicycling Stress
 - High Bicycling Stress



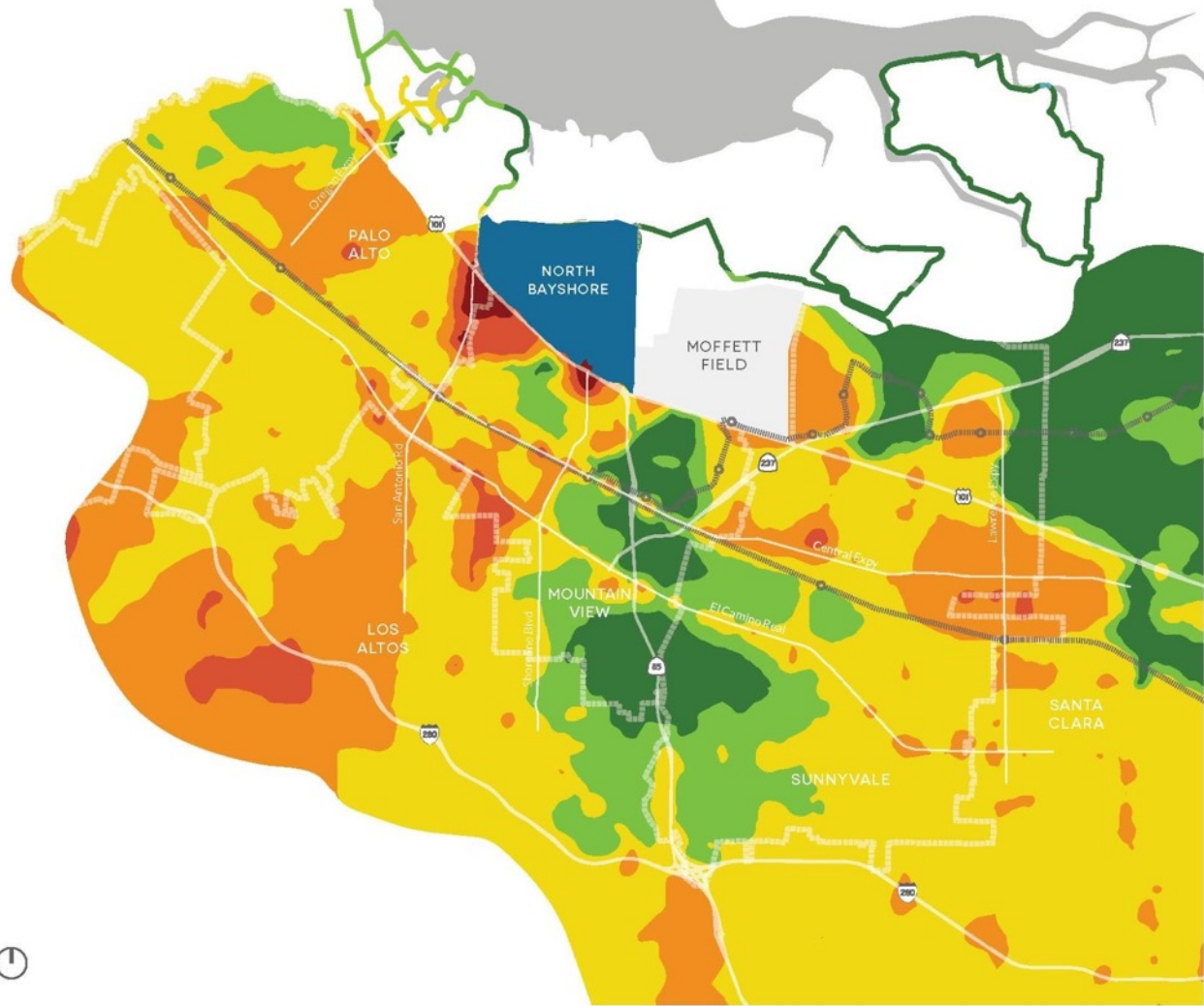
AVERAGE RIDE STRESS

EXISTING CONDITIONS:

What's the
Average Stress
I'll Encounter
on my Ride to
North Bayshore?



 Rail Transit Stops



The future Google envisions for the communities of Northern Santa Clara County:



A place where almost anyone--from 8 to 80 years old--can ride a bike comfortably & safely, for any trip they need to make.

8-to-80 means safety & comfort for all

Protected Bike Lanes



Bicycle Boulevards



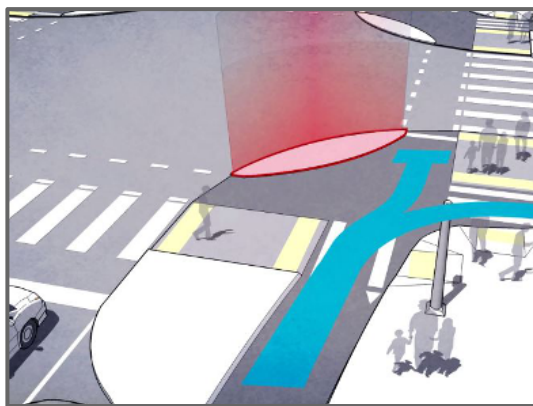
Bike Paths & Trails



Advanced Infrastructure



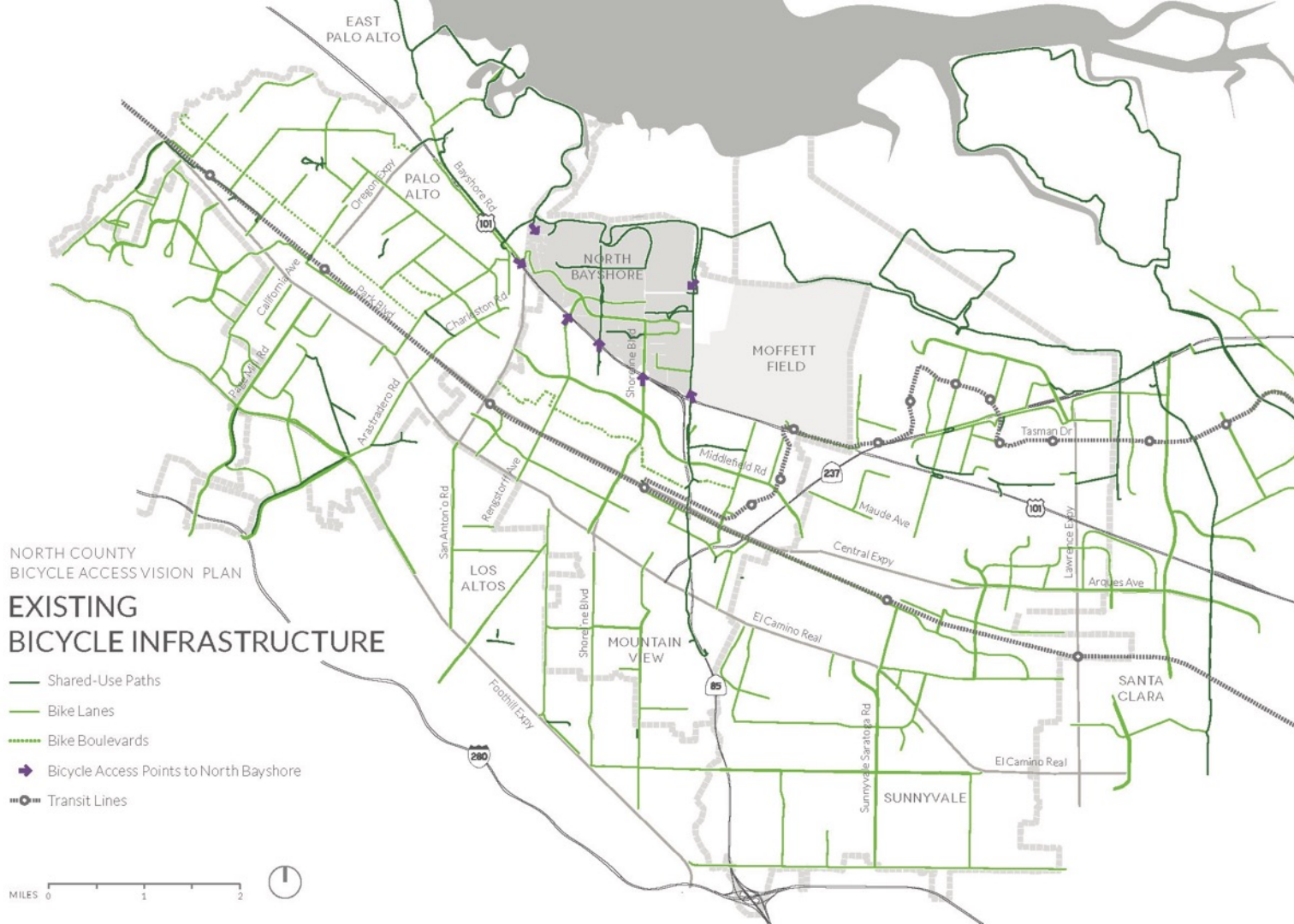
Safe Intersections



Buffered Bike Lanes



GAPS



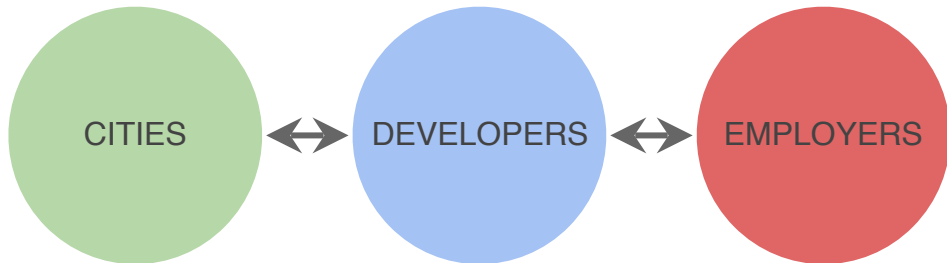
Only two steps needed

1. Thorough understanding of the reality of the bike network,
from the mindset of a safety-minded rider
2. Prioritize future investment based on a project's impact to the network

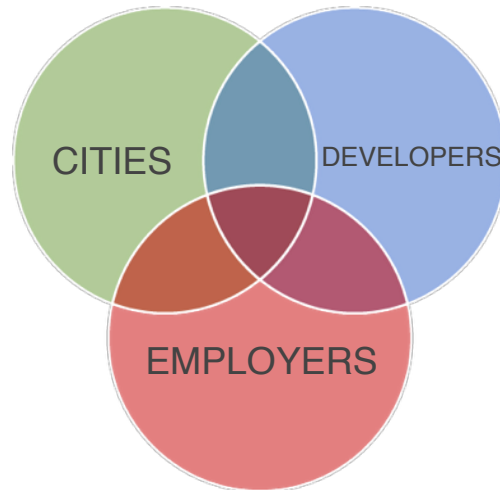
Current / completed Google projects

- Resurface two miles of the Bay Trail
- Improve bike connections between North Bayshore and the San Antonio Caltrain area
- Permanente Creek Trail undercrossing
- 2 crosswalks
- 3 signal timing projects
- 2 green painted bike lanes
- 2 experimental bike box treatments

Current paradigm works well for smaller companies...



... but less so for very large companies



Our ask: speed & collaboration

