

DESIGNING FOR THE DRIVERLESS CITY

RECLAIMING THE URBAN REALM

SPUR San Francisco
May 14, 2014

Gerry Tierney
Perkins+Will

PERKINS + WILL

TRENDS IMPACTING URBAN MOBILITY:

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SMART PHONE TECHNOLOGY & SOCIAL MEDIA:

ACCESS TO REAL TIME TRANSIT INFORMATION & MOBILITY OPTIONS

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DEMOGRAPHICS:

**REDUCTION IN DRIVERS LICENCE ISSUANCE
WOULD GIVE UP CAR BEFORE SMART PHONE**

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OWNERSHIP MODELS:

CAR SHARE vs. PRIVATE OWNERSHIP
OWNERSHIP AS A SERVICE

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AUTONOMOUS VEHICLE TECHNOLOGY:

LEVEL 3 IN NEXT 5 YEARS
LEVEL 4 IN NEXT 10 YEARS



SOCIAL MEDIA TO ACCESS VEHICLE TECHNOLOGY

THE MOST POWERFUL TOOL IN TRANSPORTATION?

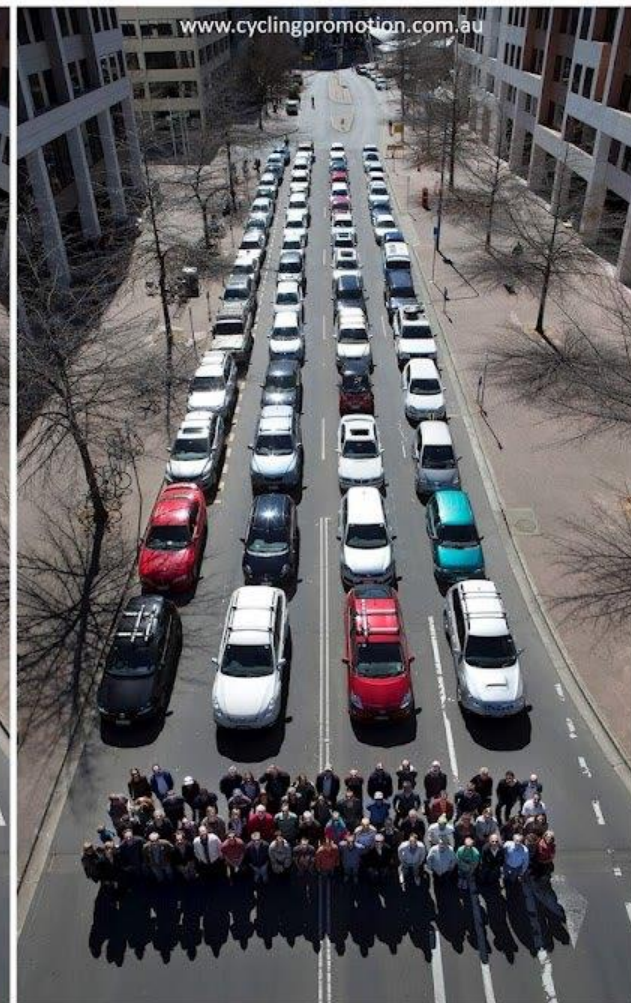
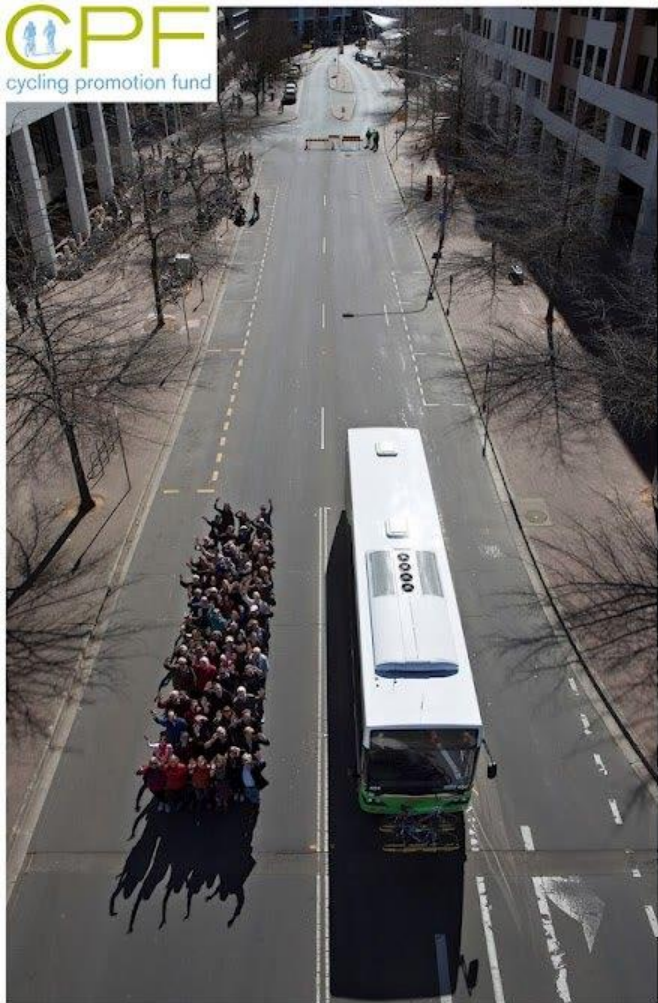




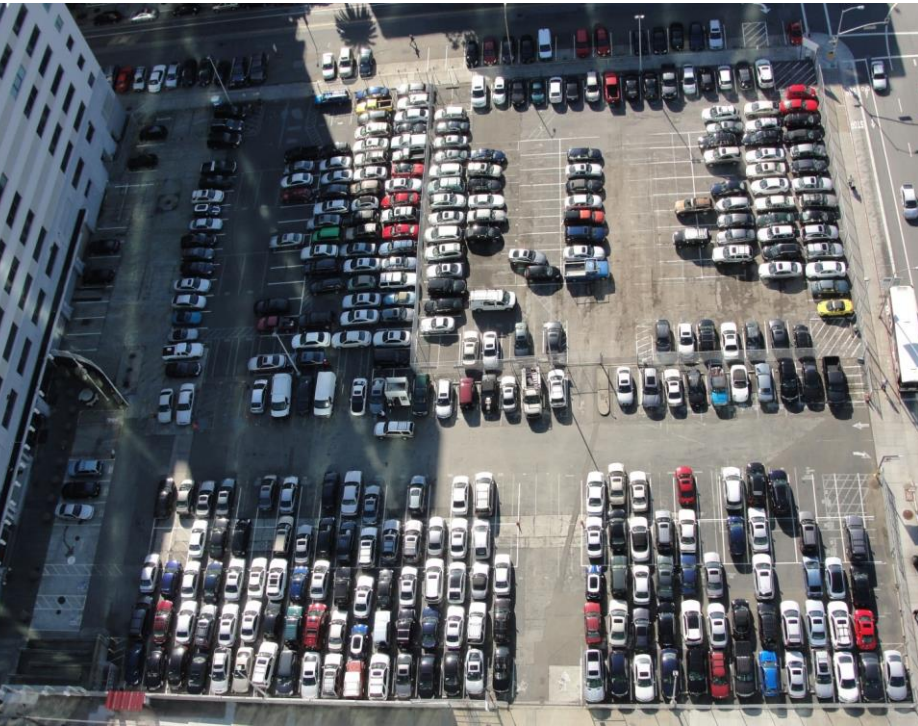
SPACE



SPACE



SPACE

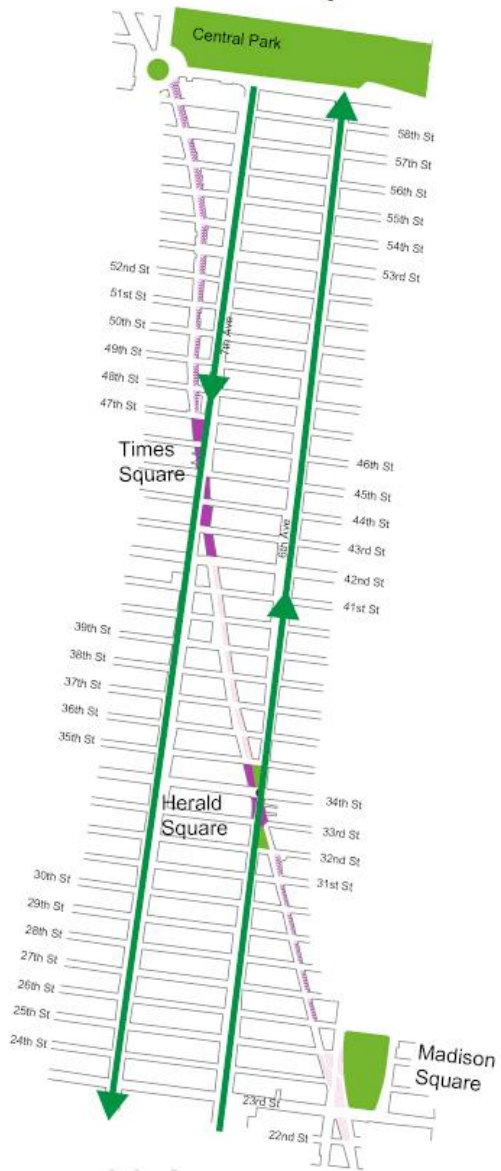


SPACE

Broadway Pilot Program

Expected Travel Time Improvements

7th Avenue
Southbound
17% Improvement







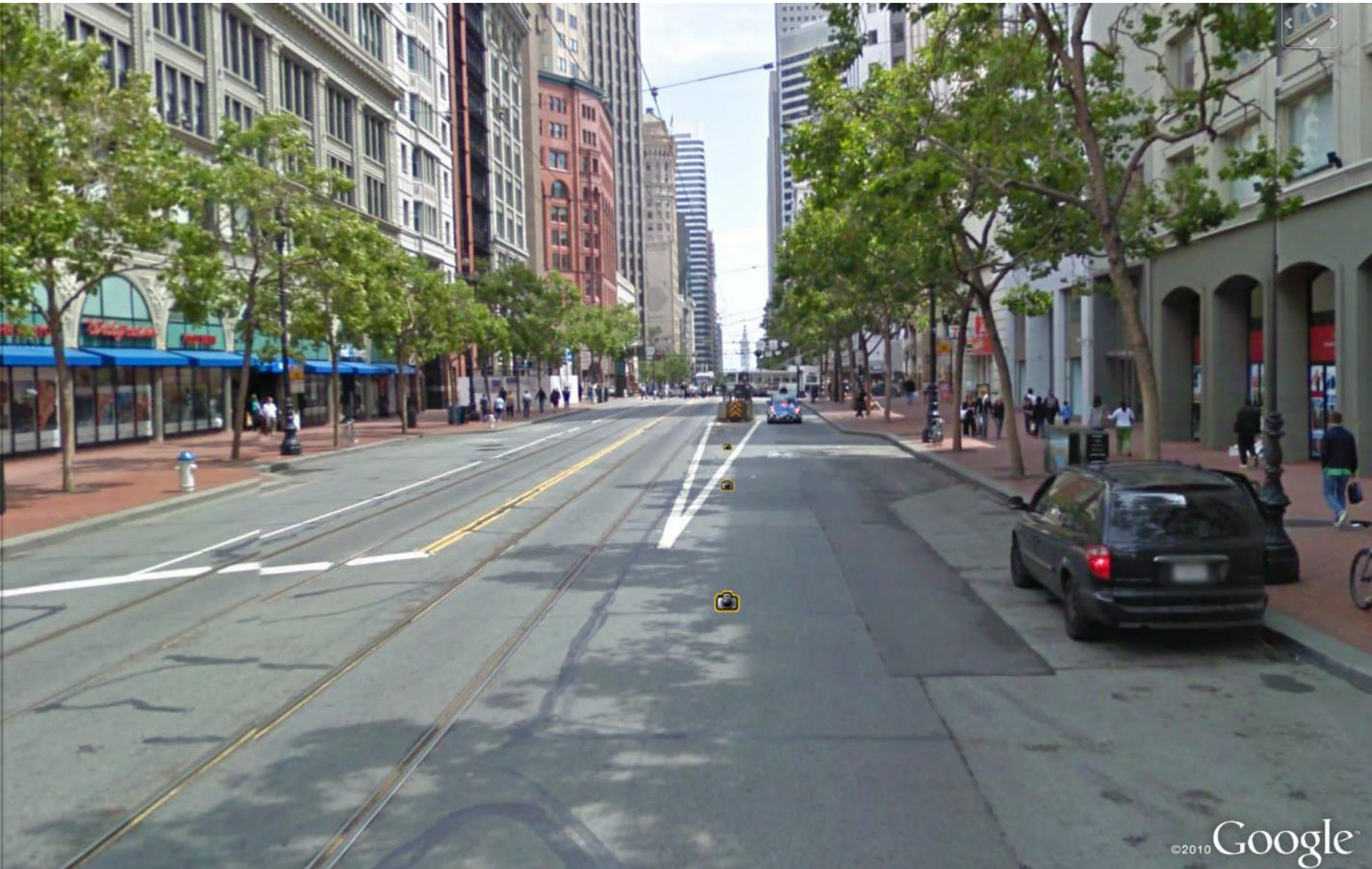


December 21, 2009

1:00 am

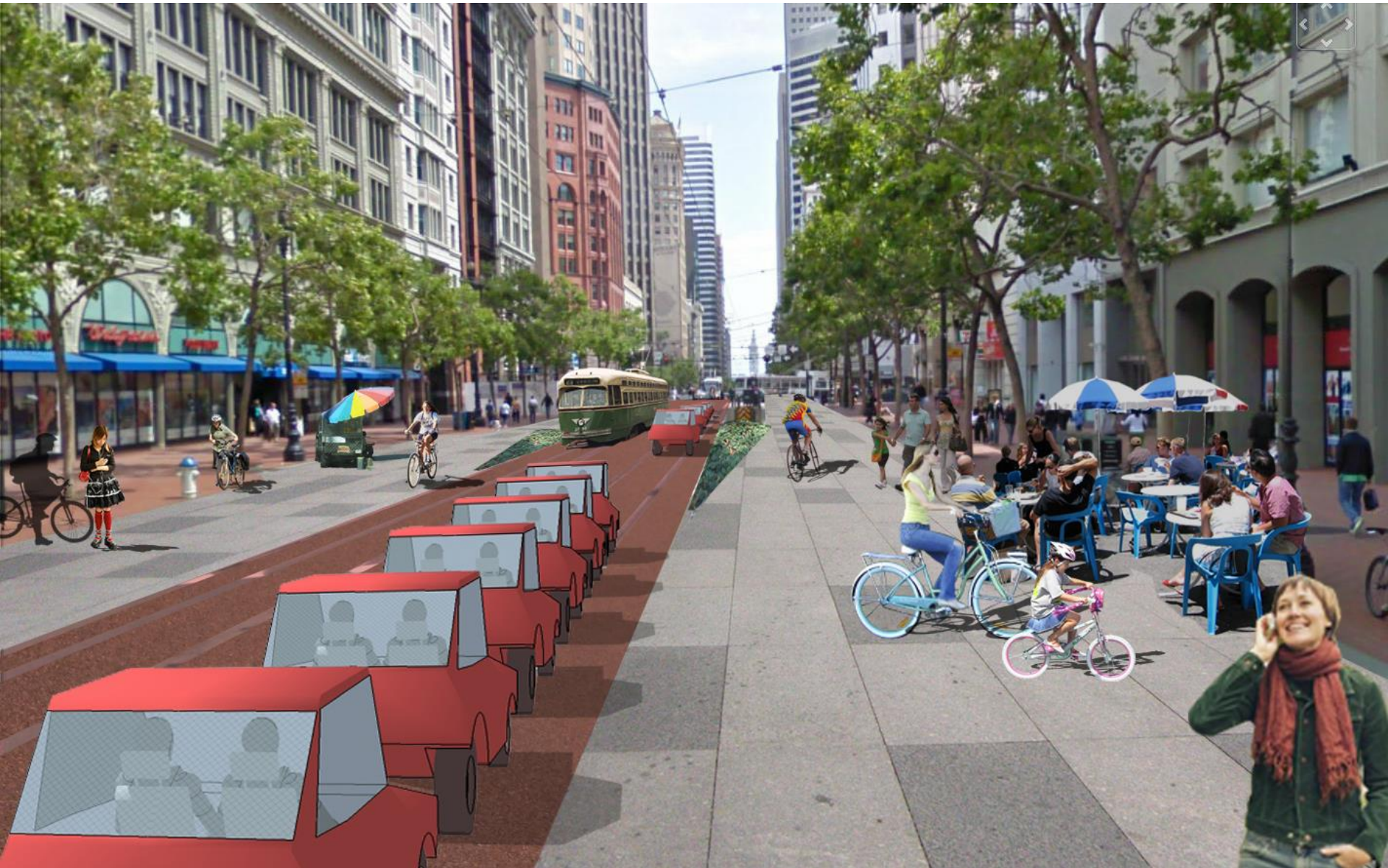
17 degrees

MARKET STREET



Capacity : 2 Traffic Lanes / On-Street Parking (In between curb cuts)

MARKET STREET



Capacity : Street Car / Bus / RC Lane / Enhanced Sidewalk Promenade

FELL STREET



Capacity : 3 Traffic Lanes / On-Street Parking

FELL STREET



Capacity : 2 Traffic Lanes / Dedicated Bike Way / Terraced Parklette

40th AVENUE



Capacity : 2 Traffic Lanes / On-Street Parking (In between curb cuts)

40th AVENUE



Capacity : Garden Street / Bike Route / Community Gardens / Neighborhood Flex-Pavilion

19th AVENUE (Highway 1)



Capacity : 6 Traffic Lanes / On-Street Parking

19th AVENUE (Highway 1)



Capacity : 1 Dedicated RC Lane / 1 Shared Bike Car Lane / Bio-Infiltration Gardens / Transit Plazas

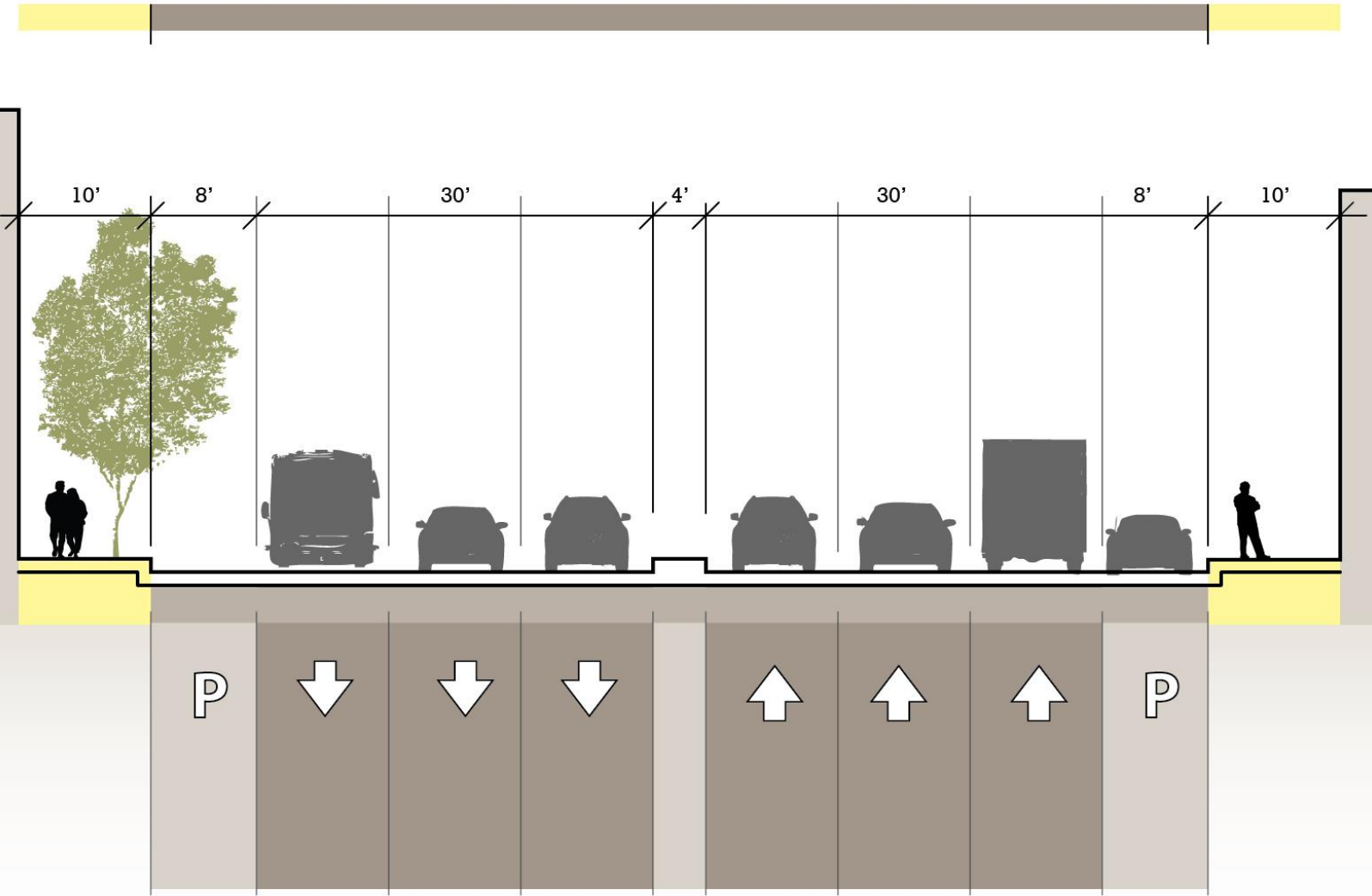
19th AVENUE (Highway 1)

100'

SIDEWALK

ROADWAY

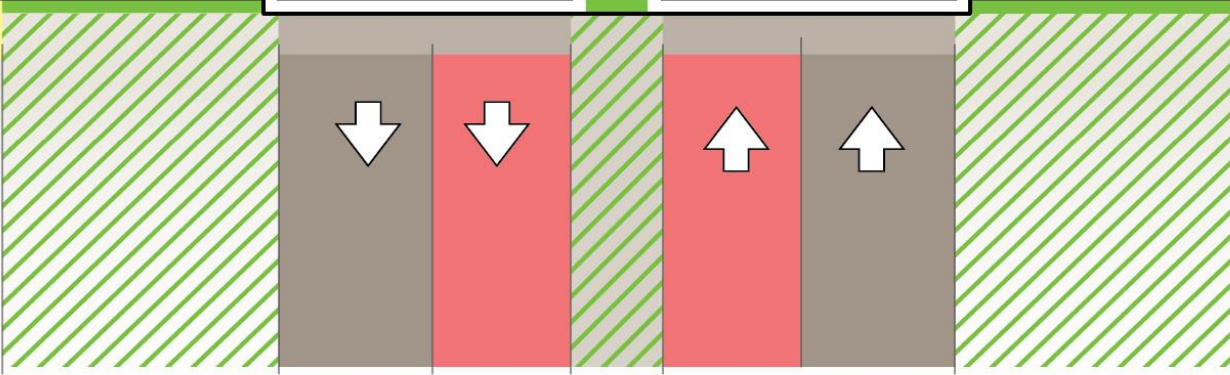
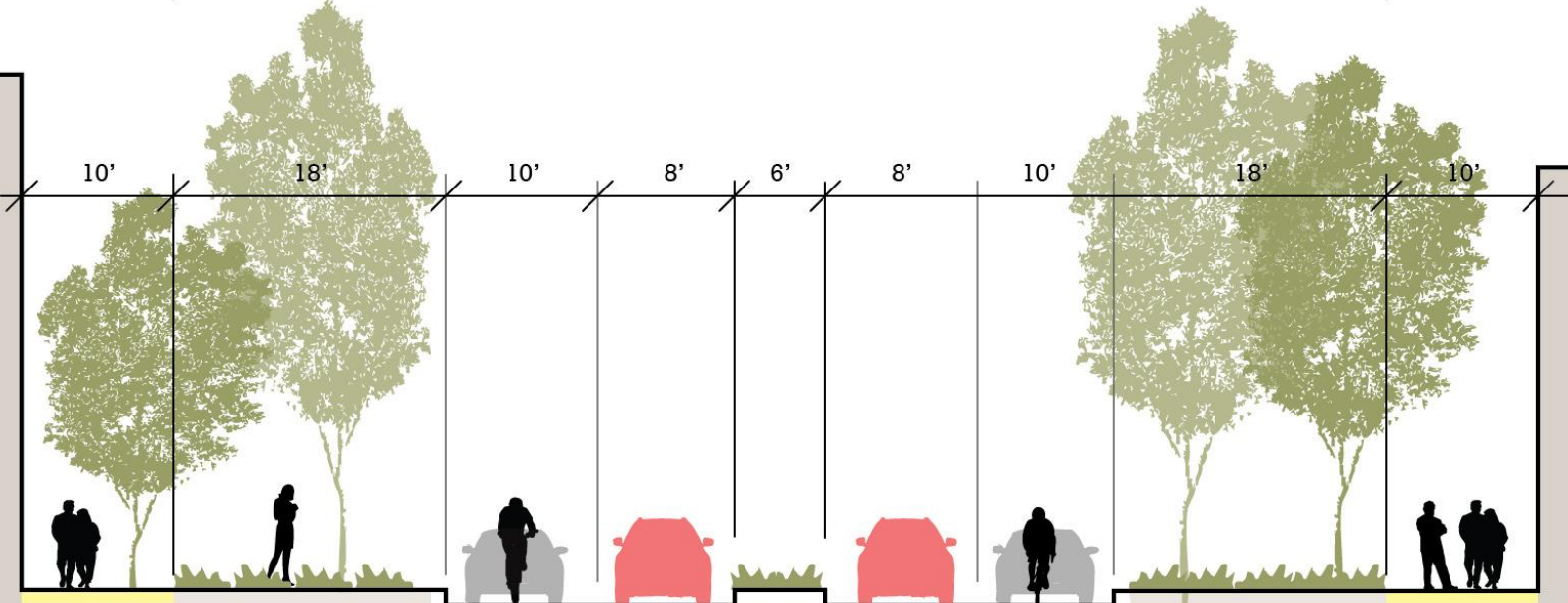
SIDEWALK



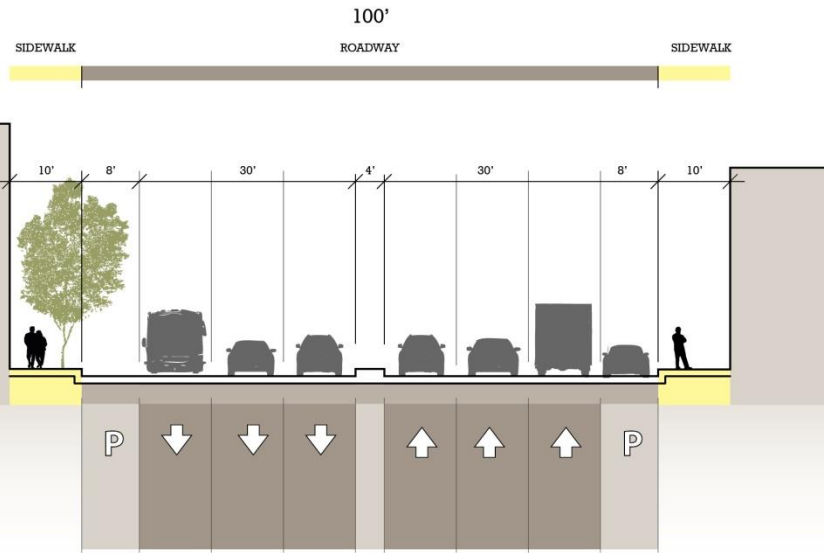
19th AVENUE (Highway 1)

100'

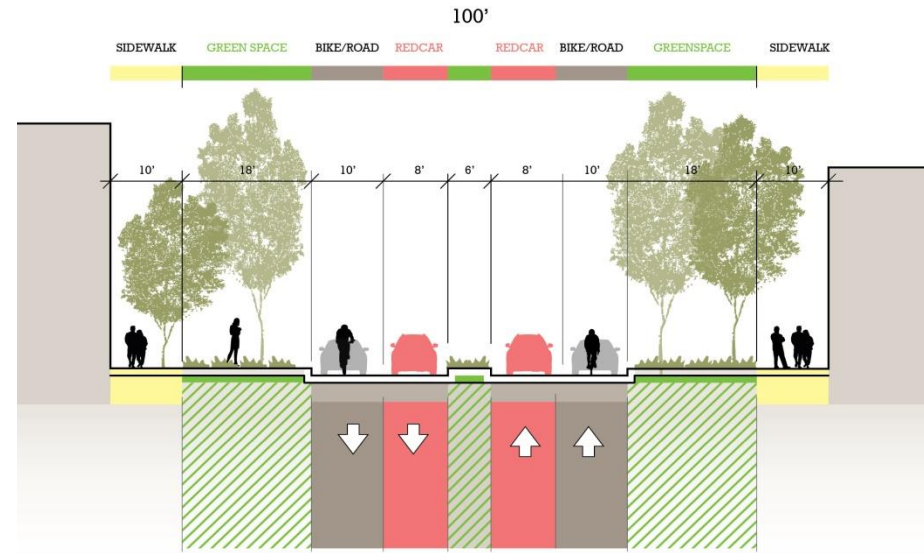
SIDEWALK GREEN SPACE BIKE/ROAD REDCAR REDCAR BIKE/ROAD GREENSPACE SIDEWALK



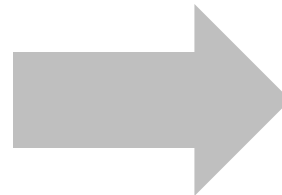
BEFORE



AFTER




Roadway : 80%
Green Space : 0%



Roadway : 20%
Green Space : 42%

URBAN GREENING



	SAN FRANCISCO	
City:	46.9 square miles	
Streets: 15% of city	7.0 square miles	
Green Space: 40% of streets	1,792 acres	
Comparable:	<p>1.75 GOLDEN GATE PARKS</p> 	

RECLAIMING THE URBAN REALM: Let's discuss what we want to do.

Thanks!



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TRANSPORTATION AND THE NEXT GENERATION:

Why Young People Are Driving Less and What It Means for Transportation Policy

[Frontier Group / U.S. PIRG Education Fund / April 2012]

The share of young people [19 – 34] without driver's licenses has increased.

16 - 29% of young people [18-34] strongly agree or somewhat agree that they have made a conscious effort to reduce their driving.

18 - 34% of young people [19 - 34] strongly agree – somewhat agree that they would reduce their driving to protect the environment.

67 % of young people [18-29] prefer to live in smart growth neighborhoods. 27% of young people [18-29] most value social amenities, bus routes and rail lines within walking distance.

23 - 31% of young people [18-34] strongly agree – somewhat agree that they would substitute driving with a social networking platform.