# Transportation Sustainability Program





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## Transportation Sustainability Program Keeping people moving as our City grows



ENHANCE TRANSPORTATION TO SUPPORT GROWTH

November 2015



#### MODERNIZE ENVIRONMENTAL REVIEW





ENCOURAGE SUSTAINABLE TRAVEL



### **Presentation Overview**



PurposeExplain technical aspects of TDMProgram in more detail

**Topics**Purpose of TDM Program

Define TDM measure

- TDM Menu
- Overview

-Assignment of point values to TDM measures

Process for Amendments

#### **Examples**

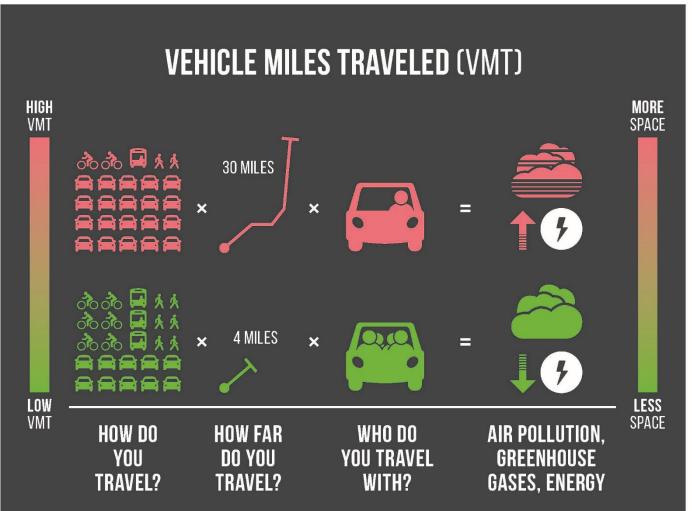
Ocean Avenue/Capitol Avenue Geary Blvd/6<sup>th</sup> Avenue GRANT O'FARRELL

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## **ENCOURAGE SUSTAINABLE TRAVEL**

## **Purpose of TDM Program**

Keeping People Moving as Our City Grows by Reducing Vehicle Miles Traveled



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## **Reducing VMT – Benefits**









Less space needed for transportation infrastructure

*Less noise, energy, and air pollution, including greenhouse gases*  Improved safety – aligns with Vision Zero

## **Reducing VMT – Benefits**

# Fundamental relationship between VMT and safety (Yeo et al. 2014)

"Multiple traffic safety studies showed that higher VMT was positively associated with the occurrence of traffic crashes or fatalities (e.g., Ewing et a. 2002, 2003: NHTSA 2011). The causal relationship between the mileage of total vehicle trips and crash occurrences can be explained by probability. With higher VMT, it is more likely that more crashes will occur (Jane et al. 2012)."



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## **TDM Measure**

#### **Definition:**

All reduce vehicle miles traveled (VMT) Affects trips of on-site users Under the control of the developer or tenant

TDM Program Standards, Glossary of Terms



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TDM Program Standards, Glossary of Terms

## Identification:

Literature Review Existing Code Provisions Best Practice Research Stakeholder Outreach

TDM Technical Justification, Table 4-1



## **TDM Measure**

### **Definition:**

All reduce vehicle miles traveled (VMT) Affects trips of on-site users Under the control of the developer or tenant

Identification:

Literature Review Existing Code Provisions Best Practice Research Stakeholder Outreach

#### **Rejected:**

Does not meet definition Relates to Areawide VMT reduction Challenges in Monitoring or Implementation TDM Program Standards, Glossary of Terms

TDM Technical Justification, Table 4-1

TDM Technical Justification, Pages 23-24



## **TDM Menu**



8 Categories, 26 Measures, 66 Options



TDM Program Standards, Table 2-3

## **TDM Menu**



## **Assignment of Point Values:**

Literature Review

• California Air Pollution Control Officers Association, California Air Resources Board, DC bikeshare research, academic papers, others

Local Data Collection



High Parking

Leads to



Lots of Driving

**Best Practice Research** 

Santa Monica, Seattle, Cambridge, Arlington County, others

#### Transportation Expert Opinion

• Family-friendly measures ,delivery measures, signage measures

*TDM Technical Justification, Pages 24-32* 

## **TDM Menu**

CATEGORY		MEASURE		POINTS
्रेंं	ACTIVE-1	Improve Walking Conditions: Options A - B	٠	1
ACTIVE Transportation	ACTIVE-2	Bicycle Parking: Options A - D	••••	1 - 4
	ACTIVE-3	Showers and Lockers	٠	1
	ACTIVE-4	Bike Share Membership: Locations A - B	••	1 - 2
	ACTIVE-5A	Bicycle Repair Station	•	1
	ACTIVE-5B	Bicycle Maintenance Services	•	1
	ACTIVE-6	Fleet of Bicycles	٠	1
	ACTIVE-7	Bicycle Valet Parking	٠	1
CAR-SHARE	CSHARE-1	Car-share Parking & Membership: Options A - E		1 - 5
<b>~</b> i	DELIVERY-1	Delivery Supportive Amenities	•	1
DELIVERY	DELIVERY-2	Provide Delivery Services	•	1
	FAMILY-1	Family TDM Amenities: Options A - B	••	1-2
FAMILY	FAMILY-2	On-site Childcare	••	2

CATEGORY		MEASURE	111 👬 👗	
	FAMILY-3	Family TDM Package	••	2
<u>,</u> Ш	HOV-1	Contributions or Incentives for Sustainable Transportation: Options A - D	******	2 - 8
HIGH OCCUPANCY VEHICLES	HOV-2	Shuttle Bus Service: Options A - B	•••••	7 - 14
	HOV-3	Vanpool Program: Options A - G	••••••	1-7
Ø	INFO-1	Multimodal Wayfinding Signage	٠	1
FORMATION & Mmunications	INFO-2	Real Time Transportation Information Displays	٠	1
	INFO-3	Tailored Transportation Marketing Services: Options A - D		1 - 4
F	LU-1	Healthy Food Retail in Underserved Area	••	2
LAND USE	LU-2	On-site Affordable Housing: Options A - D		1 - 4
Pa	PKG-1	Unbundle Parking: Locations A - E	•••••	1 - 5
PARKING MANAGEMENT	PKG-2	Parking Pricing	••	2
	PKG-3	Parking Cash Out: Non-residential Tenants	••	2
	PKG-4	Parking Supply: Options A - K	••••••	1 - 11

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## **Process for Amendments**

#### **Substantive Amendments:**

Additional/removal TDM measure Increase/decrease of five points of TDM measure Increase/decrease of 10 points of multiple TDM measures Increase/decrease of three points for target Substantial changes to fact sheets

TDM Program Standards, Pages 19-21



## **Process for Amendments**

#### **Substantive Amendments:**

Additional/removal TDM measure

Increase/decrease of five points of TDM measure

Increase/decrease of 10 points of multiple TDM measures

Increase/decrease of three points for target

Substantial changes to fact sheets

### **Reports:**

One-year

Every four years following transportation plan updates

TDM Program Standards,

Pages 19-21

TDM Program Standards, Page 21

# **Example 1: Ocean and Capitol**

### **Characteristics (hypothetical)**

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60 Units, 40% two-bedroom, 20% on-site affordable housing, 60 Parking Spaces



Project	Characteristics
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Street Address of Project

Assessors Block/Lot

Transportation Analysis Zone 54 Number

#### Category C - Residential

Target Point:

#### Project Characteristics - Land Use Category C (Residential Type)

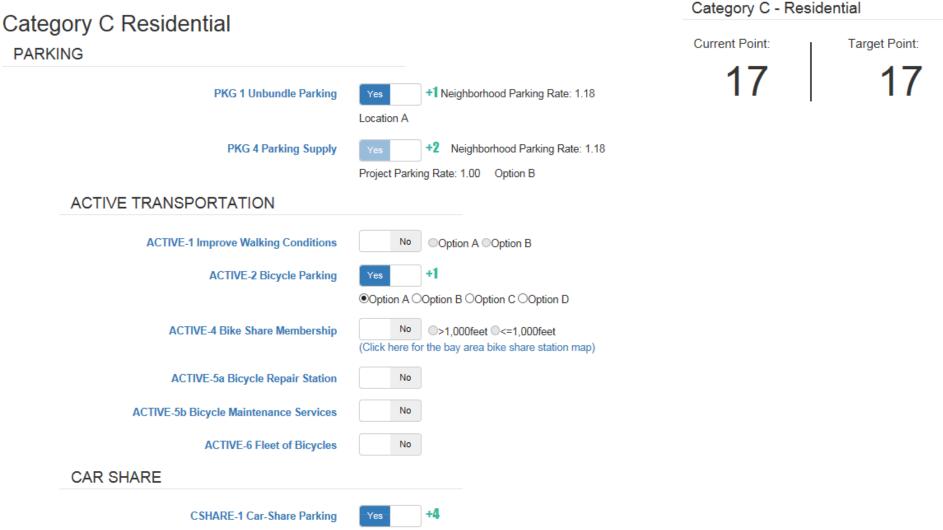
Dwelling Units and Beds in Group	60
Housing	Less than 10 dwelling units or beds is not subject to TDM Program.
% of Dwelling Units Two- Bedrooms or larger	40
% On-site Affordable Housing	10
(income >55% ≤80% AMI)	100% Affordable Housing projects are not subject to TDM Program.
% On-site Affordable Housing	10
(income ≤55% AMI)	100% Affordable Housing projects are not subject to TDM Program.
Accessory Parking Spaces	60

# Example 1: Ocean and Capitol

### **Characteristics (hypothetical)**

60 Units, 40% two-bedroom, 20% on-site affordable housing, 60 Parking Spaces

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OOption A OOption B OOption C OOption D OOption E

## **Example 1: Ocean and Capitol** Characteristics (hypothetical)



60 Units, 40% two-bedroom, 20% on-site affordable housing, 60 Parking Spaces

DELIVERY	
DELIVERY-1 Delivery Supportive Amenities	No
FAMILI	
FAM-1 Family TDM - Amenities	Yes +2 Option A Option B
FAM-2 On-site Childcare	No
FAM-3 Family TDM Package	Yes +2
HIGH OCCUPANCY VEHICLES	
HOV-1 Contributions or Incentives	No
	Option A Option B Option C Option D
HOV-2 Shuttle Bus Service	No Option A Option B
COMMUNICATIONS AND INFORMAT	ION
INFO-1 Multimodal Wayfinding Signage	Yes +1
INFO-2 Real Time Transportation Displays	Yes +1
INFO-3 Tailored Transportation Marketing Services	No
	Option A Option B Option C Option D
LAND USE	
LU-2a On-site Affordable Housing (income >55% ≤80% AMI)	Yes +1 Option A
LU-2b On₋site Affordable Housing (income ≤55% AMI)	Yes +2

Option B

Current Point:	Target Point:
17	17

Category C - Residential

# Example 2: Geary and 6<sup>th</sup> Ave

#### **Characteristics (hypothetical)**

40 Units, 40% two-bedroom, 18% on-site affordable housing, 40 Parking Spaces

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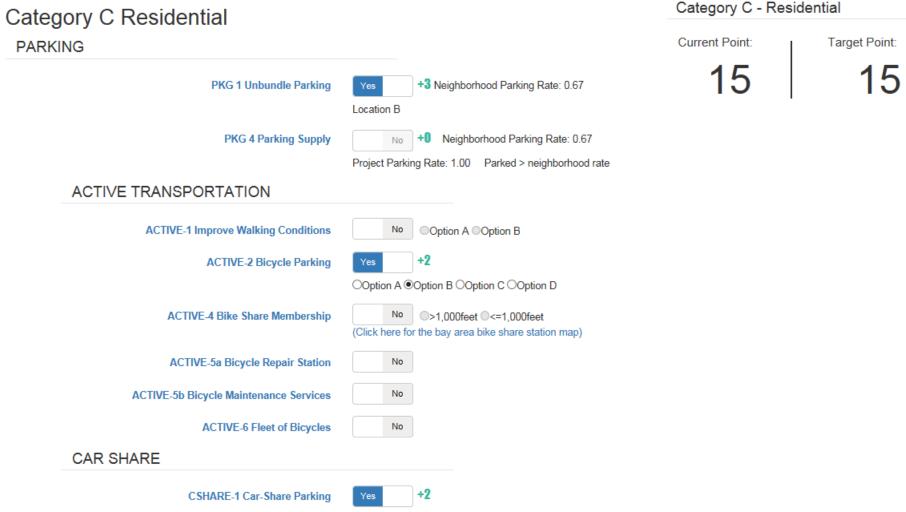


Project Characteristics	Project Characteristics - La	and Use Category C (Residential Type)
Street Address of Project	Dwelling Units and Beds in Group	40
Assessors Block/Lot	Housing	Less than 10 dwelling units or beds is not subject to TDM Program.
Transportation Analysis Zone Number	% of Dwelling Units Two- Bedrooms or larger	40
Cotogon C. Residential	% On₋site Affordable Housing (income >55% ≤80% AMI)	15
Category C - Residential		100% Affordable Housing projects are not subject to TDM Program.
Target Point:	% On-site Affordable Housing	3
15	(income ≤55% AMI)	100% Affordable Housing projects are not subject to TDM Program.
	Accessory Parking Spaces	40

## **Example 2: Geary and 6th Ave** Characteristics (hypothetical)

40 Units, 40% two-bedroom, 18% on-site affordable housing, 40 Parking Spaces

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Option A Option B Option C Option D Option E

# **Example 2: Geary and 6th Ave**

### **Characteristics (hypothetical)**

40 Units, 40% two-bedroom, 18% on-site affordable housing, 40 Parking Spaces

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DELIVERY	
DELIVERY-1 Delivery Supportive Amenities	Yes +1
FAMILY	
FAM-1 Family TDM - Amenities	Yes +2 Option A Option B
FAM-2 On-site Childcare	No
FAM-3 Family TDM Package	No
HIGH OCCUPANCY VEHICLES	
HOV-1 Contributions or Incentives	Yes +2
	Option A Option B Option C Option D
HOV-2 Shuttle Bus Service	No OOption A OOption B
COMMUNICATIONS AND INFORMAT	ON
INFO-1 Multimodal Wayfinding Signage	No
INFO-2 Real Time Transportation Displays	No
INFO-3 Tailored Transportation Marketing Services	No
	Option A Option B Option C Option D
LAND USE	
-2a On-site Affordable Housing (income >55% ≤80% AMI)	Yes +2 Option B
LIL2h On site Affordable Housing (income <55% AMI)	Yes +1

Option A

LU-2b On-site Affordable Housing (income ≤55% AMI)

Current Point:	Target Point:
15	15

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## TRANSPORTATION SUSTAINABILITY PROGRAM

Keeping people moving as our city grows

Website: <u>sftdmtool.org</u> <u>sf-planning.org/shift-encourage-sustainable-travel</u> <u>Email: tsp@sfgov.org</u>









