

Presentation to  
ITE Hawaii Section

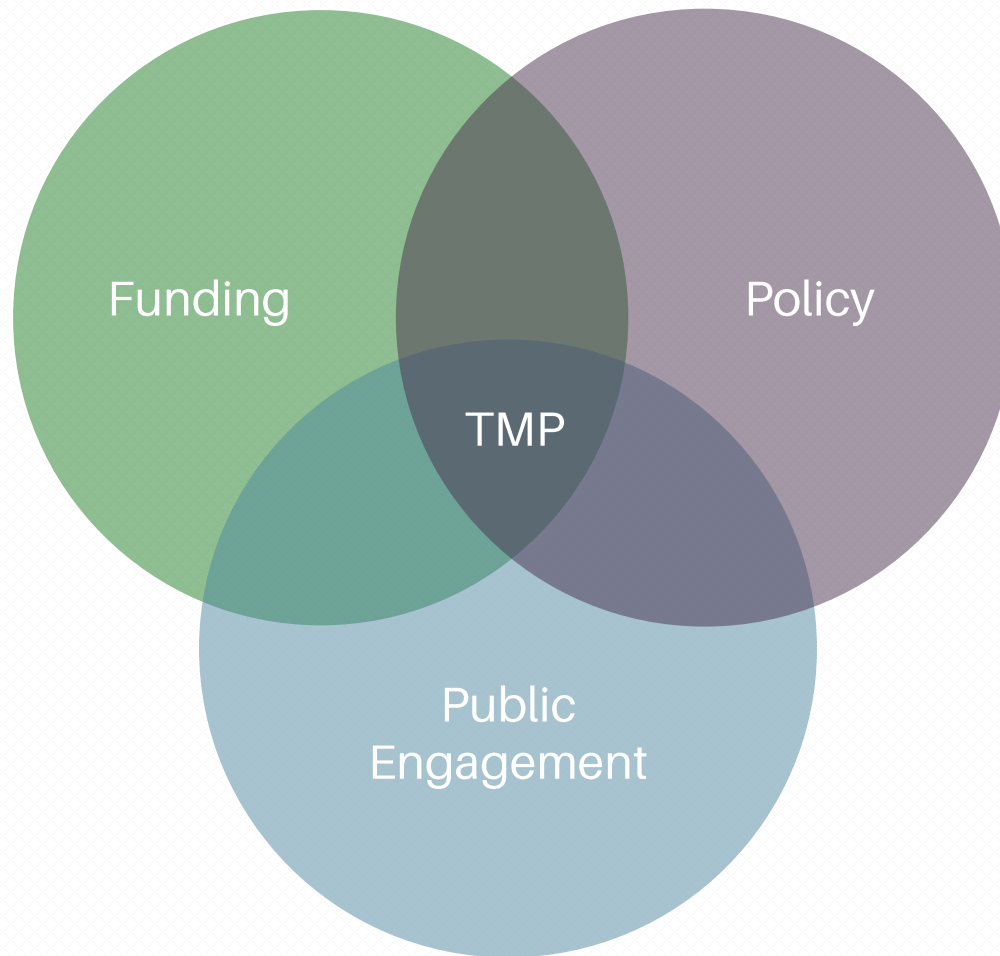


# **TRANSPORTATION MASTER PLANNING**

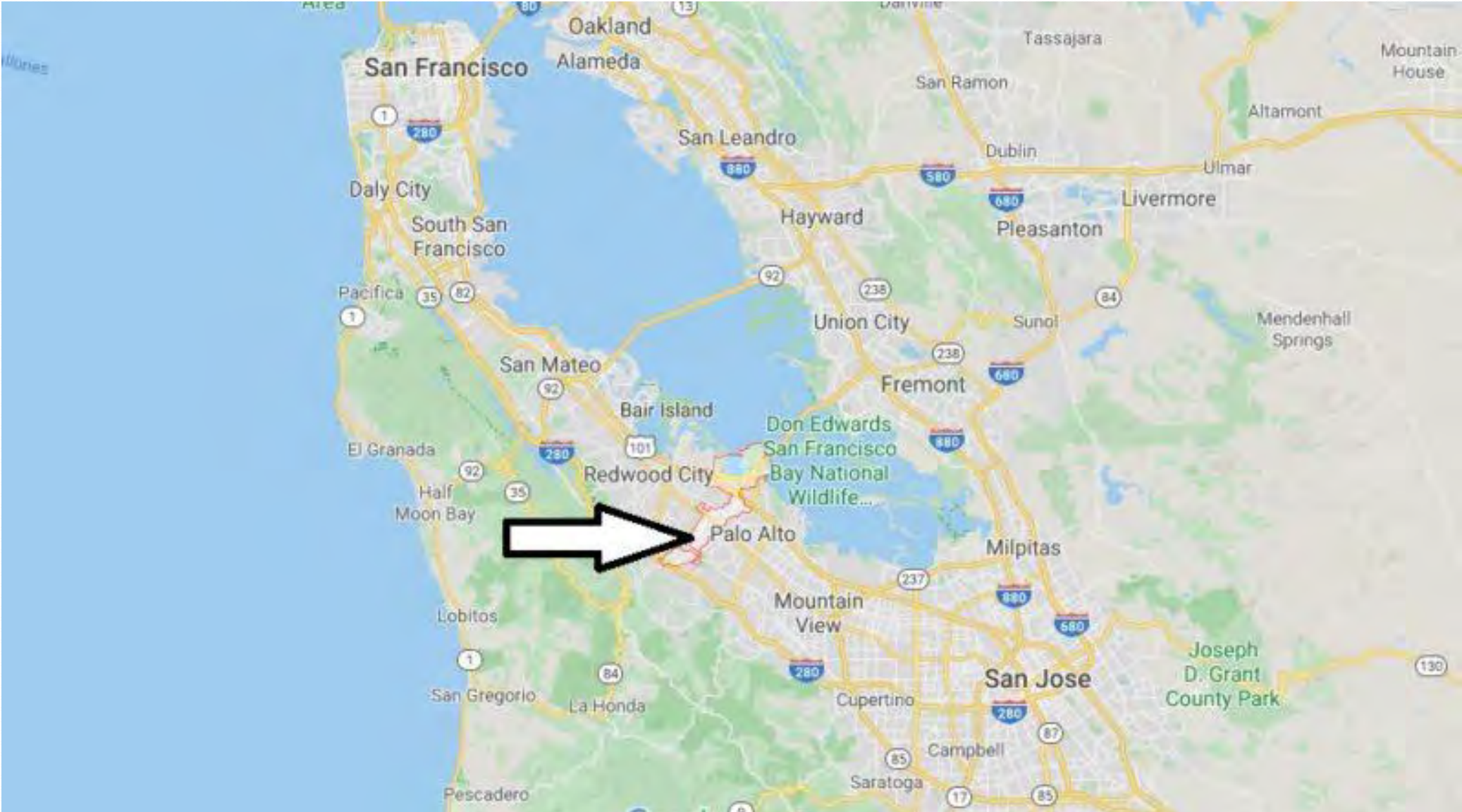
## **WHERE POLICY, FUNDING, AND PUBLIC ENGAGEMENT INTERSECT**

by Mark Spencer  
W-Trans Senior Principal, VP  
ITE Western District International Director

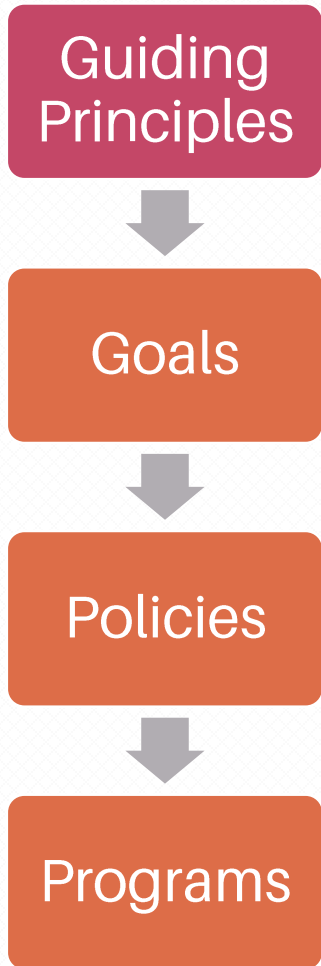
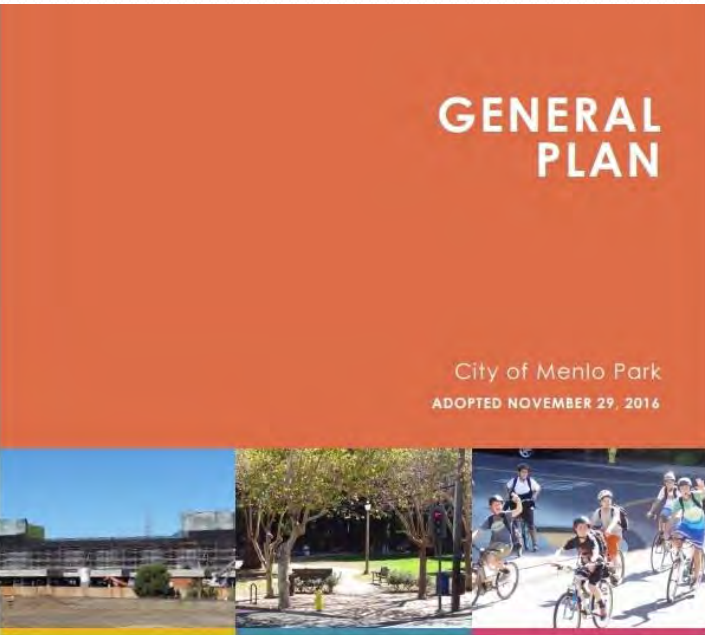
# TRANSPORTATION MASTER PLANNING



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

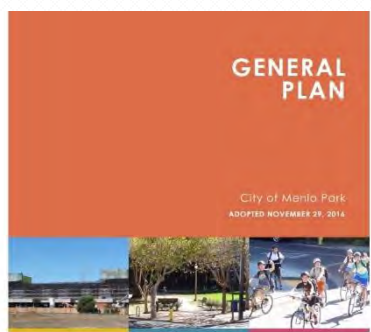


# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



- Citywide equity
- Healthy community
- Competitive and innovative business destination
- Corporate contribution
- Youth support and excellence
- Great transportation options
- Complete neighborhoods and commercial corridors
- Accessible open space and recreation
- Sustainable environmental planning

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



## CIRCULATION ELEMENT

ADOPTED NOVEMBER 29, 2014



Guiding  
Principles



Goals



Policies

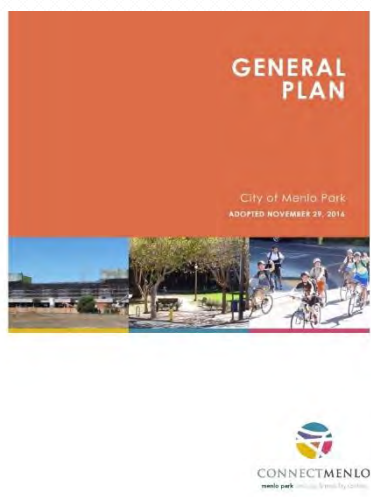


Programs

1. Complete Streets
2. Safety
3. Health and wellness
4. Sustainability
5. Transit
6. Parking
7. Transportation demand management

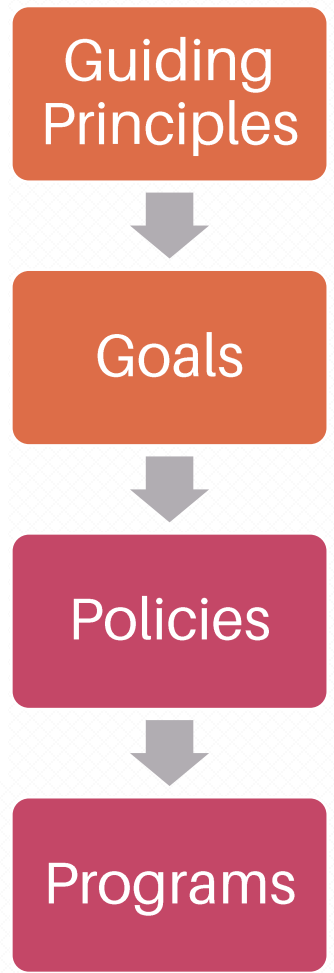


# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



## CIRCULATION ELEMENT

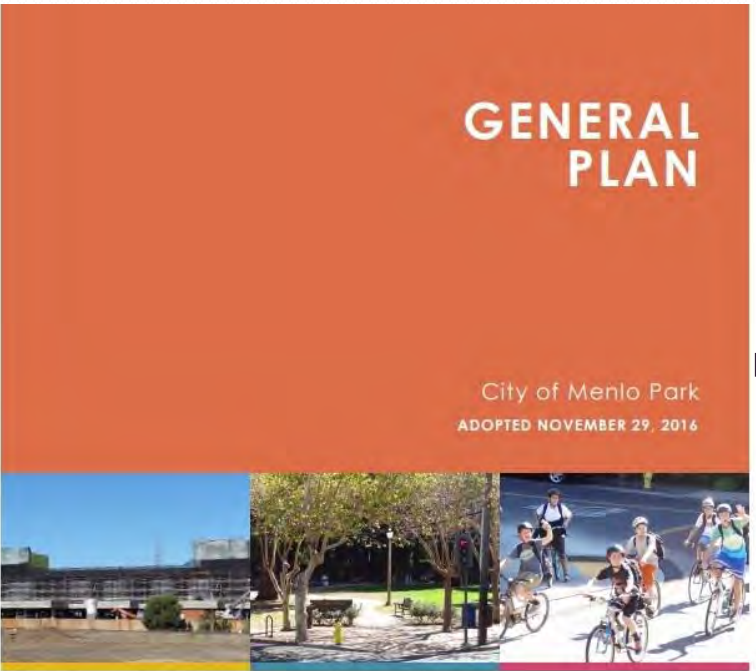
ADOPTED NOVEMBER 29, 2014



- 2.C: Develop Transportation Master Plan
- 6.C: Update Fee program
- 1.B: Develop Safe Routes to School programs
- 1.E: Adopt emergency response routes
- 5.5: Work with agencies to reactivate transit on the Dumbarton corridor
  
- 2.6: Discourage use of city streets as alternatives to state highways



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

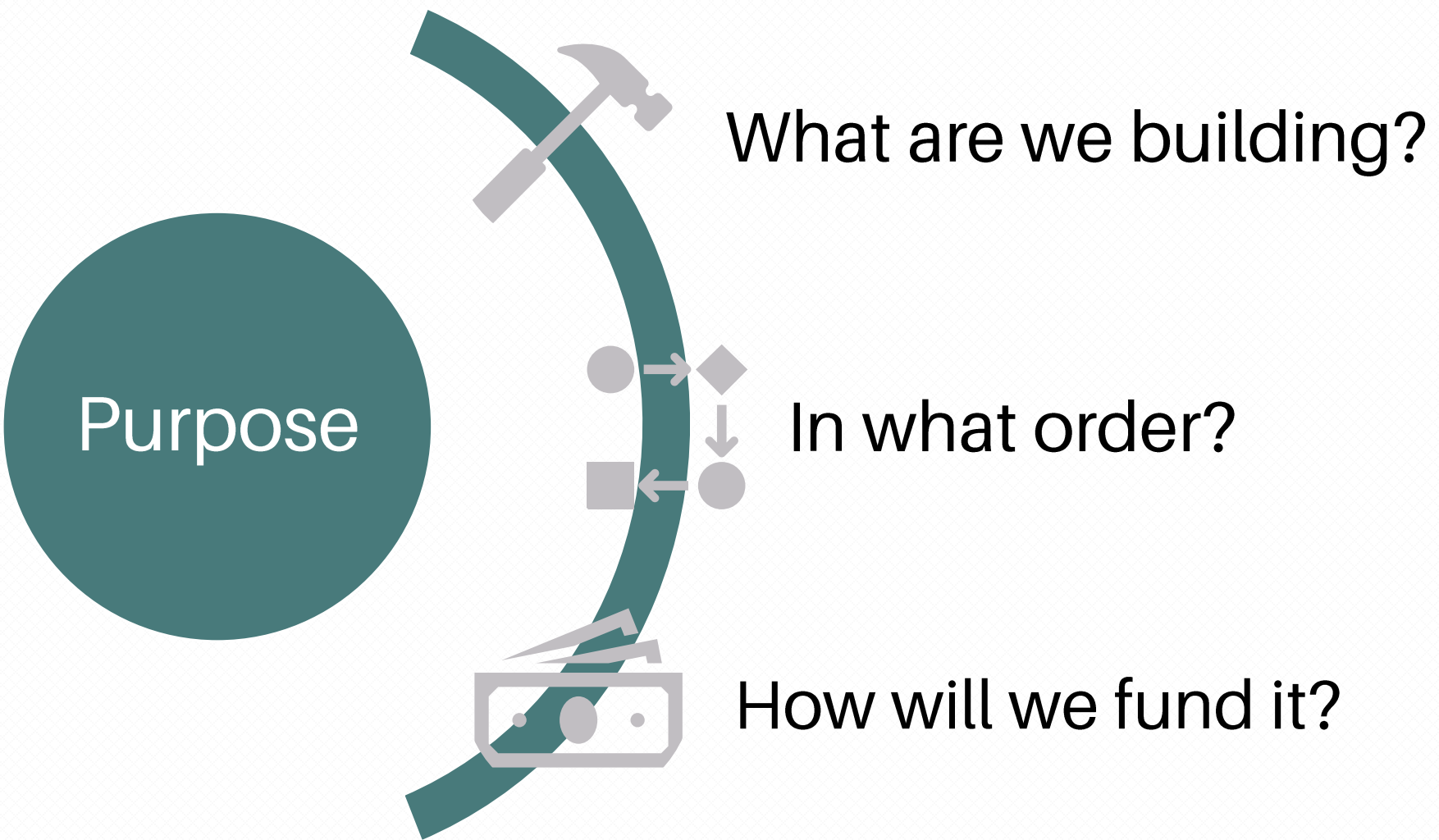


## CIRCULATION ELEMENT

ADOPTED NOVEMBER 29, 2016



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)





# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Goals and Policies



Vision Zero - Eliminate traffic fatalities and reduce the number of non-fatal collisions by 50% by 2040.  
(Policy CIRC-1.1)

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Goals and Policies



SAFETY



SUSTAINABILITY

Enable the City to meet the goals of the current and future Climate Action Plan, including a 27% greenhouse gas emission reduction

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Goals and Policies



SAFETY



SUSTAINABILITY



MOBILITY CHOICE

Design transportation projects to accommodate all modes and people of all abilities. Encourage the use of lower emission modes such as walking, biking and transit.

(Policy CIRC-2.1 & 4.1)

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Goals and Policies



SAFETY



SUSTAINABILITY



MOBILITY CHOICE



CONGESTION MANAGEMENT

Manage traffic congestion to reduce travel time on city streets and minimize cut-through traffic on neighborhood streets, including the encouragement of the use of lower emission modes such as walking, biking, transit, and prioritizing the safety of children, seniors, and the public.  
(Policy CIRC-2.5 & 2.6)

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



## WHAT IS THE TRANSPORTATION MASTER PLAN?

The TMP is a planning document that:

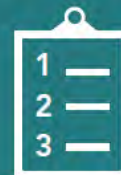
City staff and elected officials will use the TMP as a guide for future transportation projects. Once funding is allocated, each project in the TMP will need to go through its own design, outreach and construction phase.



Identifies a comprehensive set of citywide infrastructure projects and strategic programs to enhance the transportation system for all users.



Emphasizes a multimodal approach with a project list that addresses the needs of drivers, pedestrians, bicyclists, and transit users.



Prioritizes the individual projects and programs based on community-set goals and criteria.



Lays out an implementation strategy to advance key projects, using performance metrics to track their success.



Establishes a “living document” that will evolve so that it continues to reflect Menlo Park’s priorities.

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## TMP Process

Developing the TMP is a multi-stage process that has been ongoing since 2017. Steps for developing the TMP include:

### 1 Understand existing information (2017-2018)

- Summarized transportation data from past studies
- Gathered input from community on priorities, vision and goals (see results below)
- Provided updates to and received input from the OOC, Complete Streets Commission, and City Council

### 2 Identify initial strategies and recommendations (2018-2019)

- Evaluated strategies using metrics
- Applied criteria to compare and prioritize strategies
- Provided updates to and received input from the OOC, Complete Streets Commission, and City Council
- Share strategies with and gather input from the public

### 3 Evaluate and prioritize strategies (2019, in progress)

### 4 Draft TIF (2019, in progress)

- Prepare draft TIF
- Present to City Council in Fall 2019

### 5 Draft TMP (2019)

- Prepare draft TMP based on input from public, OOC, City Council
- Present to City Council in Fall 2019

### 6 Adopt TIF and TMP (late 2019-2020)

- Finalize the TIF and TMP
- City Council adopts the TIF in late 2019
- Present final documents to City Council in early 2020

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

### Existing Conditions, Challenges and Opportunities

#### SUMMARY OF KEY TRANSPORTATION NEEDS IN MENLO PARK

TRANSPORTATION TOPIC	KEY ISSUES
Safety	Vehicles – primary collision factors were speeding and improper turning Bicycles – high collision rates along Willow Road. and El Camino Real Pedestrians – over one-half of collisions were on El Camino Real, Santa Cruz Avenue, or Willow Road.; several collision hotspots in downtown area
Safe Routes to School	Gaps in sidewalks, bike lanes and paths; challenging pedestrian crossings
Neighborhood Traffic Management Program	Proactive, strategic approach needed to identify priorities throughout the City to better manage resources; update the “toolkit” to include the most effective strategies to address speeding, safety, cut-through traffic and other local traffic issues.
Bicycle facilities	Gaps in bike lanes and paths act as barriers that limit bicycle access.
Pedestrian facilities	Challenging street crossings and sidewalk gaps limit pedestrian access.

TRANSPORTATION TOPIC	KEY ISSUES
Operational improvements	Congestion during peak commute times requires spot and corridor improvements.
Green infrastructure	Paved streets, sidewalks and other impermeable surfaces lead to untreated stormwater runoff that runs into the Bay.
Regional transit	Traffic congestion slows transit travel times; inadequate service along Dumbarton Corridor to the East Bay; more bus stops should be equipped with shelters, benches, and real-time travel information.
Local transit	Need to expand existing routes to enhance connectivity to Stanford and underserved neighborhoods.
Transportation Demand Management (TDM)	TDM programs are generally available to employees at large companies but a strategy should be developed to include small businesses. A Transportation Management Association (TMA) could be a cost-effective way to distribute information about travel options citywide.
Shared mobility	Limited access to carshare services, other services such as bike and scooter sharing are currently unavailable.

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

### Identifying and Prioritizing TMP Projects

#### IDENTIFYING PROJECTS

Over 190 projects were considered for inclusion in the TMP. These projects originated from several sources – previous City plans, the TMP Oversight and Outreach Committee, Menlo Park City Council, City staff, project team, and community members.

As shown the table below candidate projects were directly linked to the needs identified in the analysis of the local transportation system and comments received from stakeholders. Each project, in turn, would also support one or more TMP goals.

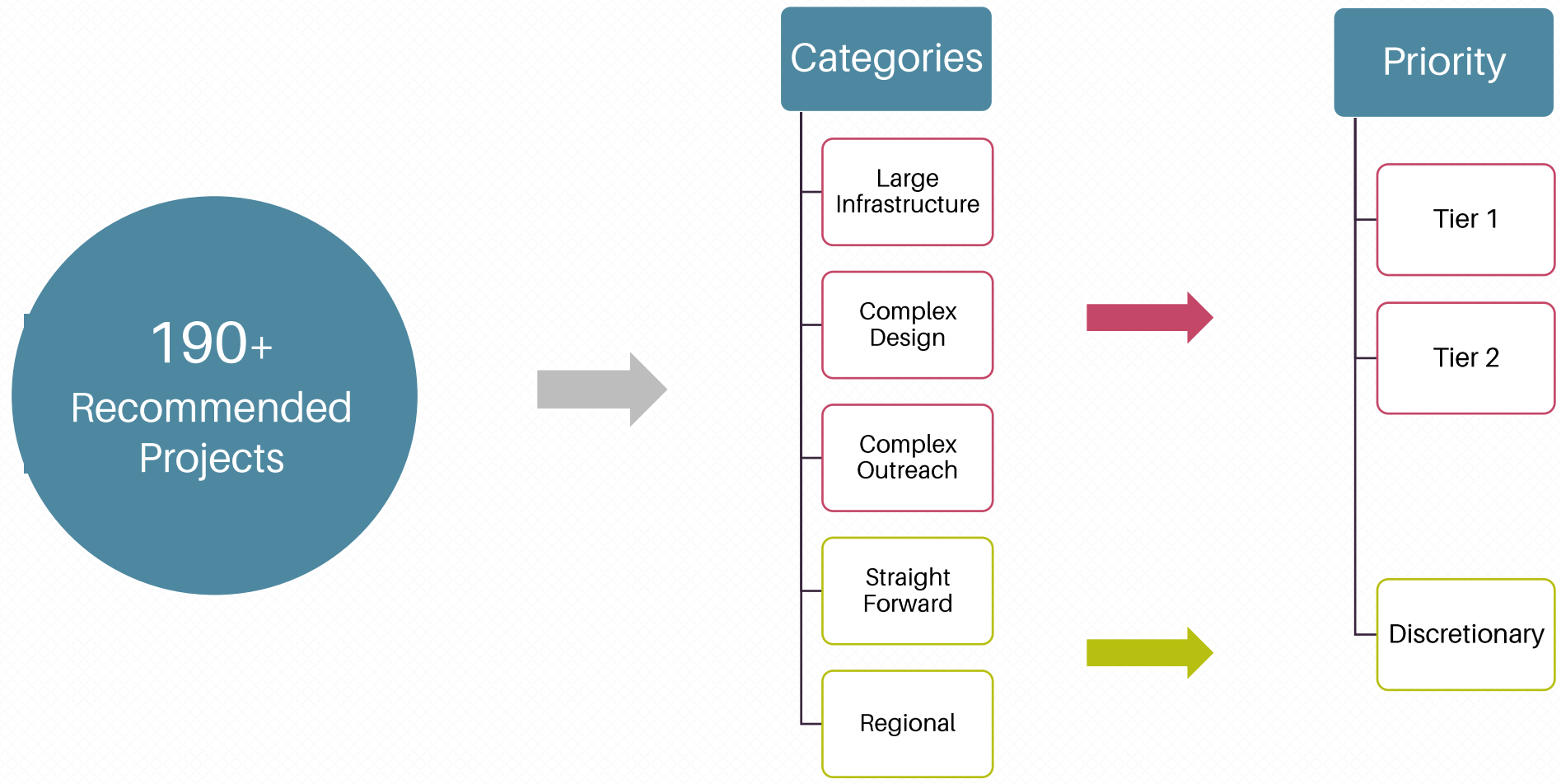
#### RESPONDING TO COMMUNITY NEEDS

EXAMPLES OF PUBLIC COMMENTS	ASSOCIATED TECHNICAL ANALYSIS	EXAMPLES OF RELATED PROJECTS
Traffic congestion: general concerns that traffic is heavy in Menlo Park and it's hard to get around	Intersection delay (LOS)	Bayfront Expressway/Marsh Road intersection improvements
Traffic congestion: Observations of heavy congestion at specific locations, such as Willow Road, El Camino, and Downtown	Intersection delay (LOS)	Adaptive traffic control systems, operations and maintenance
Transit: service is inadequate	N/A	Dumbarton Rail Corridor
Biking and walking: Safety improvements are needed	Collision data	Enhanced bicycle and pedestrian detection at traffic signals
Biking: safety for people who bike is an issue due to traffic speeds, parking, narrow lanes, and gaps in bike facilities	Review of Existing Conditions	Separate bikeway on Willow Road from Hamilton Avenue to the US 101
Biking: safer routes are needed for kids to bike to school	N/A	The Willows bike boulevard and multi-use path to improve school access
Walking: safety is an issue, especially for crossing wide streets like El Camino, and in areas that don't have sidewalks	Collision data, review of existing conditions	New sidewalks on Santa Cruz Avenue. from Olive Street to Orange Avenue.



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan



## PRIORITIZATION CRITERIA

### Safety

- Could improve safety conditions
- Close bicycle or pedestrian gap

### Congestion management

- Minimize cut-through traffic
- Reduce delay

### GHG reduction / person throughput

- Moves people out of SOV and into transit, carpools, shuttles, etc.
- Meets City's GHG goal

### Transportation sustainability

- Promotes use of bicycles, pedestrian and public transit modes
- Promote use of multiple modes

### School nearby

- Improve access to and accommodate all travel modes to and from a school

### Sensitive populations

- Proximity to daycares, senior centers, and communities of concern

### Green infrastructure

- Provides ways to incorporate green stormwater infrastructure

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

**Project Scoring System Example**

Tier	Project	Safety*	Congestion Management*	GHG Reduction/Person Throughput*	Transportation Sustainability*	School Nearby*	Sensitive Population	Green Infrastructure
1	Project A	●	◐			●		◐
1	Project B	◐	●		◐		◐	
2	Project C	◐		◐	◐			◐
2	Project D		◐			◐		
2	Project E	◐		◐			◐	

● = Fully Met Criteria    ◐ = Partially Met Criteria    EMPTY = Did Not Meet Criteria

\*Key Criteria

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

### Recommended TMP Projects

#### TIER 1

A list of the 54 Tier 1 Local projects is provided in the table starting on this page. A description, how it supports the goals of the TMP, and a planning-level cost estimate are provided for each project. Costs will be determined in greater detail as projects advance in the design process. Projects are generally listed in geographical order from north to south, followed by Citywide programs. The complete list of TMP projects - including Local, Straightforward, Regional, and Citywide projects - is included in Appendix V.

#### TIER 1 LOCAL PROJECTS



DRIVING IMPROVEMENT



PEDESTRIAN IMPROVEMENT



MULTIMODAL IMPROVEMENT



BIKING IMPROVEMENT

NO.	LOCATION	PROJECT	PROJECT DETAILS	COST
1. 	Haven Ave from Marsh Rd to Haven Court	Bayfront Expy Multimodal Corridor Project	<ul style="list-style-type: none"> <li>Construct Class I Multi-Use Path from Marsh Rd to Atherton Channel.</li> <li>Establish Class II Bicycle Lanes from Haven Court to Atherton Channel.</li> <li>Install Bicycle and Pedestrian crossing upgrades.</li> </ul>	\$2,866,000
2. 	Bayfront Expy & Marsh Rd	Bayfront Expy Multimodal Corridor Project	<ul style="list-style-type: none"> <li>Recommended Improvements: Modify southbound Haven Ave approach to reduce delay. Install Bicycle and Pedestrian crossing upgrades.</li> <li>Funded Improvements: Widen eastbound Marsh Rd and add additional right turn lanes. Install Class I Multi-Use Path along eastbound Marsh Rd.</li> </ul>	\$206,000
8. 	Bayfront Expy & Willow Rd	Bayfront Expy Multimodal Corridor Project	<ul style="list-style-type: none"> <li>Install bike signals, high-visibility crosswalks and cross-bike markings.</li> <li>Reconstruct eastbound Willow Rd right-turn channelizing island to improve pedestrian access.</li> <li>Remove southbound Bayfront Expy channelizing island to provide space for shoulder-running bus lane and implement a right-turn overlap phase.</li> <li>Modify traffic signal to accommodate channelized right turn modifications.</li> <li>Install Transit Signal Priority (TSP) for queue jumps by shoulder-running buses.</li> </ul>	\$1,757,000
14. 	Marsh Rd from Bay Rd to Scott Dr	Marsh Rd Bicycle Network Improvement	<ul style="list-style-type: none"> <li>Bay Rd to Florence St: Establish Class II Buffered Bicycle Lanes in both directions (requires removal of parking on the north side of street).</li> <li>Florence St to Scott Dr: Establish Class II Buffered Bicycle Lanes in both directions. Remove or modify existing median at Scott Dr.</li> </ul>	\$1,491,000



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

### LISTENING TO THE COMMUNITY

The TMP included two phases of wide-ranging activities to engage the public in 2017 and 2019. Each phase generated significant community participation, with over 1,000 participants during each phase. Key engagement methods included:



Online open houses where participants could indicate their priorities and provide comments on projects



Walking workshops to provide an on-the-ground experience of some of the key local issues



Tabling at community events such as the farmer's market to collect comments from a wide range of residents



Public meetings to engage participants in a more in-depth discussion about the TMP

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



## Building the Plan






The screenshot shows a web browser displaying the Menlo Park Transportation Master Plan (TMP) process website. The browser's address bar shows the URL <https://menloparktmp.participate.online/tmp-process>. The page header includes the text "Menlo Park Transportation Master Plan - TMP process" and "ONLINE OPEN HOUSE: Sept. 6 - Oct. 16, 2019". The main content area features the City of Menlo Park logo, the title "TRANSPORTATION MASTER PLAN", and icons representing a pedestrian, a cyclist, a car, and a bus. A yellow banner below the title states: "The comment period for this project ended Oct. 16. The site remains live for informational purposes." The navigation menu at the bottom includes links for "Welcome", "Background", "TMP process", "Evaluation process", "Project map", and "Thank you".

Menlo Park Transportation Master Plan - TMP process




<https://menloparktmp.participate.online/tmp-process>

ONLINE OPEN HOUSE: Sept. 6 - Oct. 16, 2019

Select Language   
Powered by  Translate

 **TRANSPORTATION  
MASTER PLAN**  
   

The comment period for this project ended Oct. 16. The site remains live for informational purposes.

Welcome  Background **TMP process** Evaluation process Project map  Thank you 

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

### Welcome

Welcome to the Menlo Park Transportation Master Plan online open house!

This is our second round of community engagement on the Transportation Master Plan (TMP). As one of the Menlo Park City Council's top priorities, the TMP will identify projects and an implementation strategy to address transportation needs in Menlo Park. Once complete, the TMP will act as a guide for decision-makers and staff to implement transportation projects. Everyone who lives, works, and plays in Menlo Park has a unique perspective on transportation needs in the community. We need your input!



Welcome to Menlo Park

### Through this online open house, you can:

- Learn about the purpose of the TMP and why it is needed.
- Understand our work to identify, evaluate, recommend, and prioritize projects.
- Share your thoughts on our priorities and TMP implementation.

### How to use this online open house

- Visit each station to learn more about the Menlo Park TMP.
- Click the > button or select the station names at the top of the page to move around the open house.
- Skip straight to the [project map](#) page to review the projects that we evaluated through an interactive map, and provide your input on recommended Tier 1 and Tier 2 projects.
- Visit the [thank you](#) page to provide your thoughts on what successful implementation of the TMP looks like.
- Expect to spend 20-30 minutes to fully review the content and respond to questions.

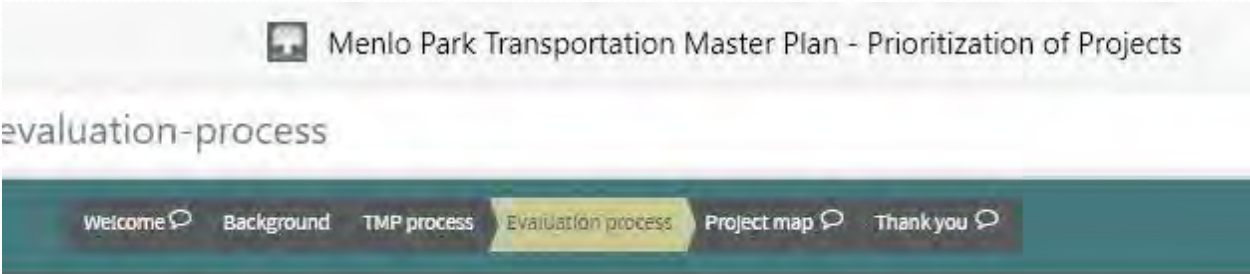


Tell us about yourself



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

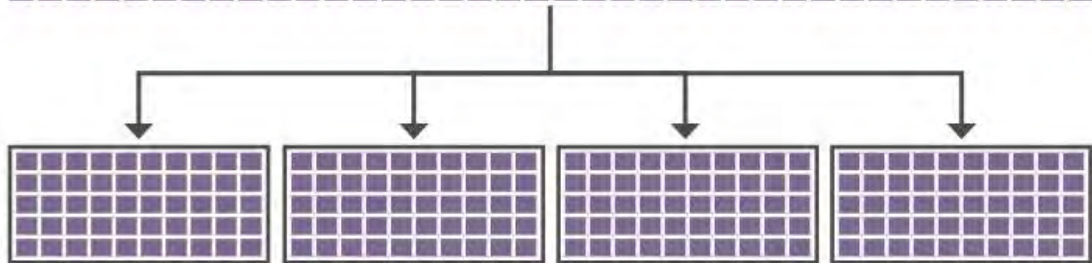


### How we evaluated and prioritized projects

After identifying nearly 200 potential strategies for improving transportation in Menlo Park, we carefully evaluated and narrowed down the list of proposed projects to 150. With the four goals of the TMP in mind (safety, sustainability, mobility choice, and congestion management) the projects were grouped, evaluated, and prioritized for future implementation.

### What are we building?

We started with 190+ recommended projects.



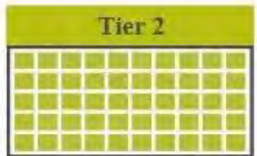
We sorted these into different categories based on scale and complexity.

### In what order?



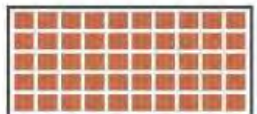
Local projects

We prioritized these according to their ability to meet community goals. The highest prioritized projects were prioritized as Tier 1 and all other projects were prioritized as Tier 2.



Straightforward projects

We did not prioritize these. They will be built through an annual program in the City's operating budget in coordination with the Safe Routes to School and Paving programs.



# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan

Menlo Park Transportation Master Plan - Project map

https://menloparktmp.participate.online/project-map

**Search**

Use the search box to find a location on the map

Menlo Park, CA

**Project**

The map below shows

- Filter projects by
- Click on the icons
- Let us know what
- For each of
- down to Tier

**Projects by travel mode**

All

**Projects by priority**

Tier 1

**All other projects**

All

**Funded**

Five-Year Vehicle Collisions (2012 - 2017) ⓘ

Five-Year Pedestrian Collisions ⓘ

Five Year Bicycle Collisions ⓘ

Existing Bike Network ⓘ

Bicycle Level of Traffic Stress ⓘ

Deficient Intersections ⓘ

**Ringwood Ave from Bay Rd to Van Buren Rd**

**Project number:** 54

**Purpose:** Increase bicycle mobility by designating a bicycle route.

**Description:** Designate Class III Bicycle Route. Implement Bicycle Boulevard design features.

**Cost:** \$\$

**Goal:**

**Priority:** Straightforward

\$: Less than \$100k | \$\$: \$100k - \$1M | \$\$\$: \$1M - \$3M | \$\$\$\$: \$3M - \$10M

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Engaging the Public

Menlo Park Transportation Master Plan - Project map

**Willow Rd & O'Brien Dr**

**Project number:** 40

**Purpose:** Improve pedestrian safety by installing bulb-outs, pedestrian signals, and high-visibility crosswalks.

**Description:** Install curb ramps at all corners of intersection. Install high-visibility crosswalks on all legs and add pedestrian signals (including new crosswalks crossing Willow Rd). Install bulb-outs into O'Brien Dr on northeast and southeast corners.

**Cost:** \$\$

**Goal:**

**Priority:** Tier 1

[View conceptual design sketch](#)

**Do you agree with this project's priority level?**

Yes

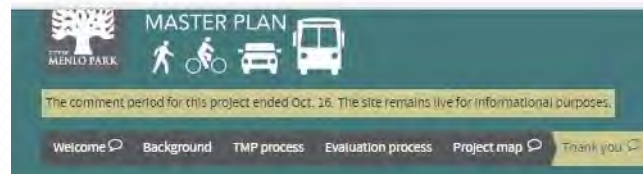
No

Unsure

\$: Less than \$100k | \$\$: \$100k - \$1M | \$\$\$: \$1M - \$3M | SSSS: \$3M - \$10M

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

## Building the Plan



## Thank you

Thank you for your interest in the Menlo Park Transportation Master Plan! We want to hear what successful TMP Implementation looks like to you using the below form. If you would like to go back to any of the information included on this site, use the navigation buttons at the top of the page. Your feedback is valuable to us – after the comment period closes on Oct. 11, 2019, we will use your input to finalize our project priorities for the draft TMP.

**What does successful implementation of the TMP look like to you?**

**If you live in Menlo Park:**  
**In which neighborhood do you live?**

-- Please Select --

**How long have you lived in Menlo Park?**

Less than a year

1 to 4 years

5 to 9 years

10 to 20 years

More than 20 years

**How many cars are in your household?**

-- Please Select --

**Do you have children?**

Yes

No

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)

Building the Plan

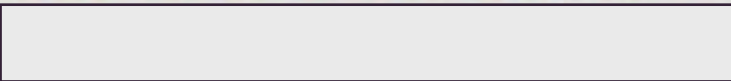
## TRANSPORTATION MASTER PLAN PROJECTS – ESTIMATED COSTS AND TIF FUNDING

TMP IMPLEMENTATION GROUP	ESTIMATED COST	DEVELOPER SHARE
Tier 1 Projects	\$77.3 million	\$43.3 million
Tier 2 Projects	\$48.3 million	\$14.6 million
Regional Projects	\$10.8 million	\$10.8 million
Straightforward Projects	\$3.0 million	\$0.9 million
Citywide Projects	\$18.6 million	\$3.5 million
<b>Subtotal</b>	<b>\$158 million</b>	<b>\$73.1 million</b>

# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



## IMPLEMENTATION



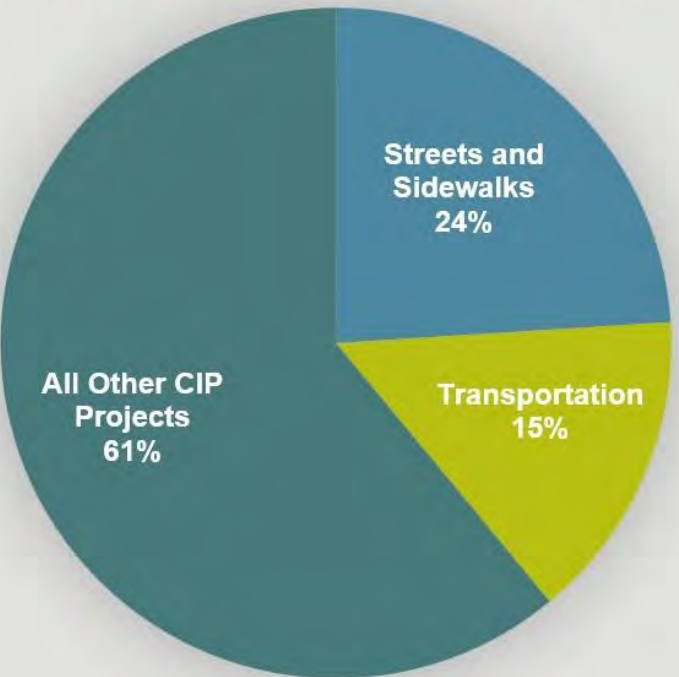
Local Funds

TIF/Fees

Grants/Taxes



### 2018-19 CIP BUDGET



Implementation Plan



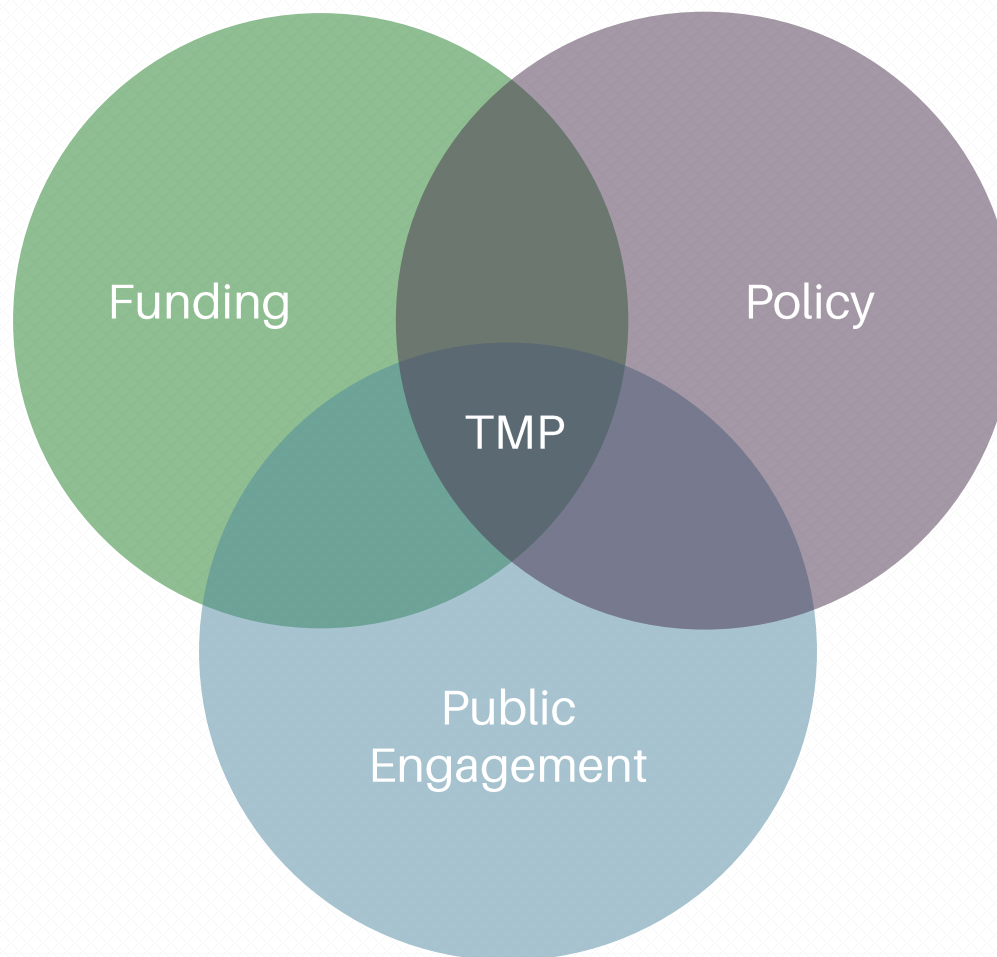
# MENLO PARK TRANSPORTATION MASTER PLAN (TMP)



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# TRANSPORTATION MASTER PLANNING







**THANK YOU!**