

# Arterials, Highways, and Freeways Committee

## Kick-Off Meeting

Robert Guerrero, Director of Planning  
Leslie Gould, Assistant Project Manager

June 14, 2023



# Meeting Agenda

1. Committee Member Introductions
2. Comprehensive Transportation Plan (CTP) Schedule and Purpose
3. Overview of Arterials, Highways, and Freeways Element
4. Local/Regional/State Transportation Roles
5. Related Plans, Programs, and Studies
6. Projects Overview
7. Committee Members' Round Table Discussion
8. Future Topics

# Meeting Objectives



Introduce the Comprehensive Transportation Plan (CTP) Update Effort and Arterials, Highways, and Freeways (AHF) Element Development Process



Provide an overview of AHF-Related Plans, Programs, and Projects



Set the stage for Focused, Prioritized Transportation Projects

# Arterials, Highways, and Freeways Committee Members

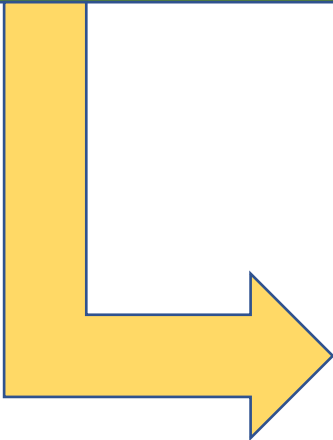
## Policy Board Members:

1. John Carli, City of Vacaville (**Chair**)
2. Steve Young, City of Benicia
3. Steve Bird, City of Dixon
4. Catherine Moy, City of Fairfield
5. Ron Kott, City of Rio Vista
6. Princess Washington, City of Suisun City
7. Peter Bregenzer, City of Vallejo
8. Mitch Mashburn, County of Solano

## Representatives:

1. Dave Belef, BAC
2. Teri Booth, PAC
3. Matt Tuggle, TAC
4. Lisa Klein, MTC
5. John Xu, Caltrans
6. Captain Mike Lehman, CHP





Date	CTP Subcommittees Schedule Line Up
May 10, 2023	Active Transportation Committee Kick-Off
June 14, 2023	Arterials, Highways, and Freeways (AHF) Committee Kick-Off <ul style="list-style-type: none"><li>• Informational Meeting – Background to CTP and AHF Element</li></ul>
July 12, 2023	Transit Committee Kick-Off
October 11, 2023	Active Transportation Committee
December 13, 2023	Arterials, Highways, and Freeways Committee <ul style="list-style-type: none"><li>• Transportation Funding Sources/Gaps</li><li>• Cities/County Transportation Project Priorities</li></ul>
January 10, 2023	Transit Committee
April 10, 2024	Active Transportation Committee
May 8, 2024	Arterials, Highways, and Freeways Committee <ul style="list-style-type: none"><li>• Final Draft List of Project Priorities</li></ul>
June 12, 2024	Transit Committee
Fall 2024	*Possible Fourth Committee* Wrap up the CTP Completion

# Comprehensive Transportation Plan (CTP)

- Foundational document for transportation projects and programs to be eligible for STA's discretionary funding and support
- Includes the following elements and chapters:
  - 🚲 Active Transportation Element
  - 🛣️ **Arterials, Highways, and Freeways Element**
  - 🚌 Transit and Rideshare Element
  - 🗺️ Land Use Chapter
  - ♿️ Equity Chapter
- Transportation projects and programs identified in the CTP are also eligible to be included in MTC's Regional Transportation Plan called Plan Bay Area 2050



# Arterials, Highways, and Freeways Element

The Arterials, Highways and Freeways (AHF) Element of the Solano Comprehensive Transportation Plan (CTP) focuses on the analysis and enhancement of key connections between key components of Solano County's transportation network. Roadways must be able to adequately serve all modes of transportation, embrace multimodal commuting to ease congestion, and reduce greenhouse gas emission.

The AHF element must not only define the County's transportation network but also analyze the current state of the system to establish a set of goals and identify strategies to bridge the gap between ideal and existing conditions.



Questions?



# Arterials, Highways, and Freeways – Trivia Question #1

What is Annual Average of Daily Trips (AADT) for Interstate 80?



AADT is calculated by dividing the total volume of vehicle traffic for a year by the total number of days in the year



111,000 - 130,000



131,000 - 150,000



151,000 - 180,000

# Arterials, Highways, and Freeways – Trivia Question #1

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I-80: 131,000 - 150,000  
Contra Costa Line Yolo County Line



111,000 - 130,000

I-680: 69,000 - 83,000  
Contra Costa Line I-80/I-680 Intrchg



131,000 - 150,000

I-780: 63,000 - 74,600  
I-680/I-780 Intrchg I-780/I-80 Intrch

I-505: 30,000 - 41,000  
Yolo County Line I-80/I-505 Intrchg



151,000 - 180,000

The size of all these vehicles equates to 397 - 454 football fields.



Source: 2017 Caltrans traffic volume report

# Types of Routes

Each route falls under one of the following federal functional classifications:

- **Urban Interstate Freeway** – limited-access interregional roadway
- **Urban Freeway** – limited-access regional roadway
- **Urban Major Arterial** – access-controlled roadway emphasizing mobility within urbanized communities and connections to freeways
- **Urban Minor Arterial** – roadway emphasizing mobility within urbanized communities and connections to freeways
- **Rural Major Arterial** – roadway emphasizing mobility between urbanized and rural communities and connections to freeways
- **Major Collector** – roadway emphasizing access to major employment, shopping, or freeways



# Routes of Regional Significance Map

First map was approved on November 8, 2000, and included:

- Entire interstate and state highway system in Solano County
- Existing arterials that provided points of access to state highway system
- Provided regional connections between communities and key transportation facilities





# Routes of Regional Significance Criteria

To be included, each route must meet one of the following criteria:

- All roadways in the Solano Congestion Management Program network.
- Roadways providing access to and from transit facilities of regional significance.
- Roadways providing access to and from major employment centers, identified by STA, with higher traffic volumes.
- Roads providing intercity and highway/freeway connections.
- Other roads critical to providing countywide emergency response.



## Agenda Item 5.C.1

# Caltrans' Role in State Transportation

John Xu,

Branch Chief, System Planning





*Caltrans*<sup>®</sup> *Bay Area*<sup>®</sup>

Zhongping (John) Xu

Chief, System Planning East Bay/Santa Clara Branch  
Caltrans District 4

John McKenzie

System Planning East Bay/Santa Clara Branch  
Caltrans District 4





## Caltrans District 4 Division of Transportation Planning & Local Assistance

Office of Multimodal System Planning

Office of Regional and Community Planning

Office of Transit and Active Transportation

Office of Advance Planning

Office of Local Assistance



## Division Contacts:

### Office of Multimodal System Planning:

Cameron Oakes ([Cameron.Oakes@dot.ca.gov](mailto:Cameron.Oakes@dot.ca.gov))

### Office of Regional and Community Planning:

Erik Alm ([Erik.Alm@dot.ca.gov](mailto:Erik.Alm@dot.ca.gov))

### Office of Transit and Active Transportation:

Sergio Ruiz ([Sergio.Ruiz@dot.ca.gov](mailto:Sergio.Ruiz@dot.ca.gov))

### Office of Advance Planning:

Celia McCuaig ([Celia.McCuaig@dot.ca.gov](mailto:Celia.McCuaig@dot.ca.gov))

### Office of Local Assistance:

Ephrem Meharena ([Ephrem.Meharena@dot.ca.gov](mailto:Ephrem.Meharena@dot.ca.gov))



## Agenda Item 5.C.2

# MTC's Role in Regional Transportation

Lisa Klein,

Director of Field Operations and

Asset Management



## Agenda Item 5.C.3

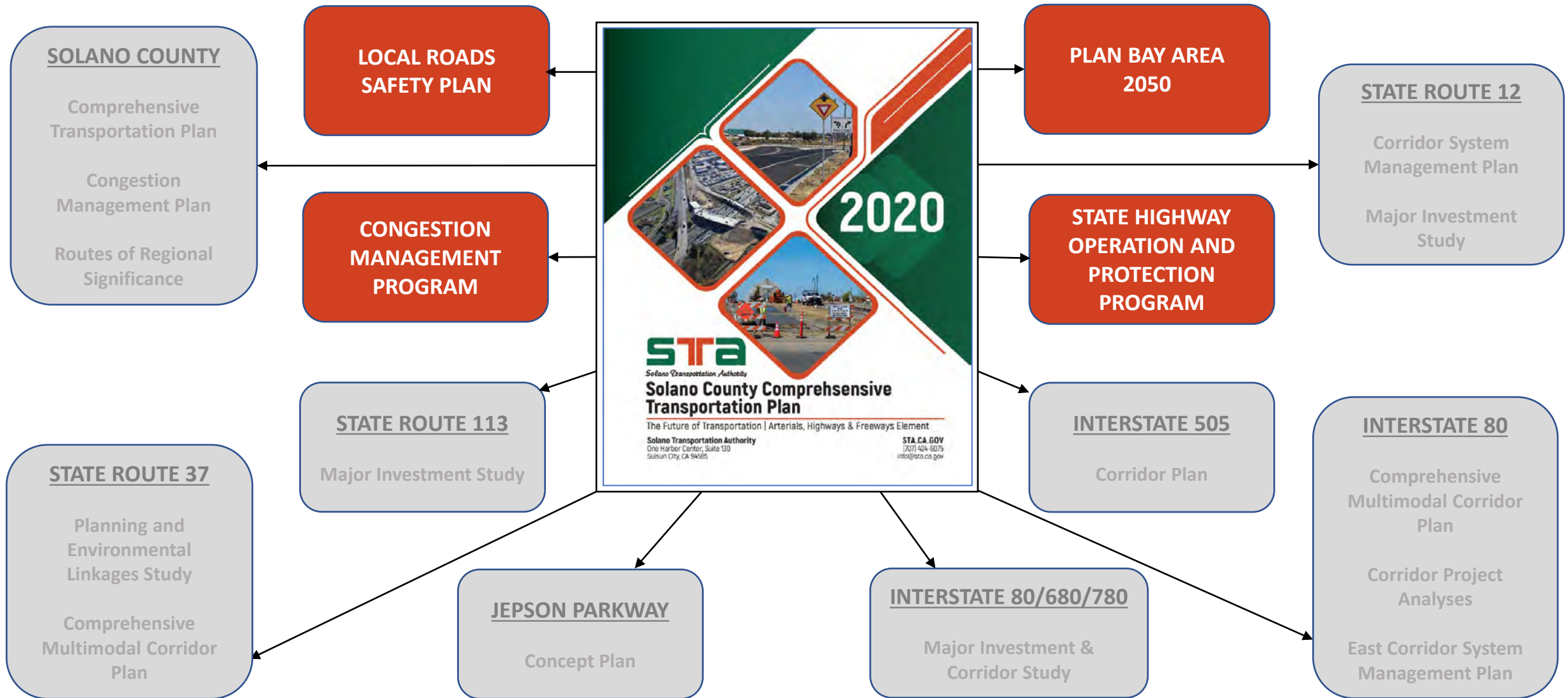
# STA's Role in County Transportation

Daryl Halls,  
Executive Director

# Element-Related Plans, Programs, and Studies



# Element-Related Plans, Programs, and Studies







# Plan Bay Area 2050 – Elements/Themes/Strategies

## Housing

- Protect and preserve affordable housing (2)
- Spur housing for residents of all income levels (4)
- Create inclusive communities (2)

## Economy

- Improve economic mobility (3)
- Shift location of jobs (3)

## Transportation

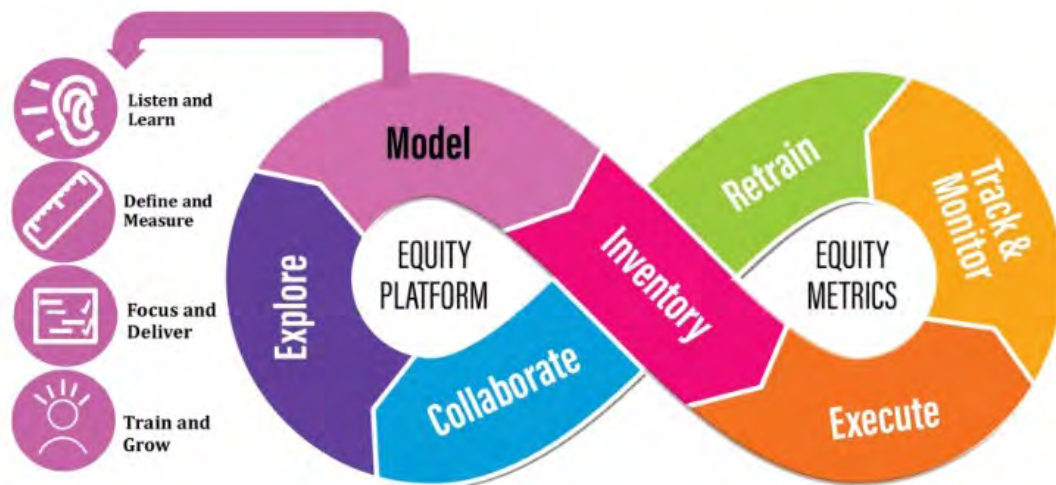
- Maintain and optimize the existing system (7)
- Create healthy and safe streets (2)
- Build a next-generation transit network (3)

## Environment

- Reduce risks from hazards (3)
- Expand access to parks and open spaces (3)
- Reduce climate emissions (3)

# Plan Bay Area 2050 – Equity Focus

The 35 identified strategies are centered advancing equity, through careful considerations of investments and policies that affect historically and systematically marginalized communities.



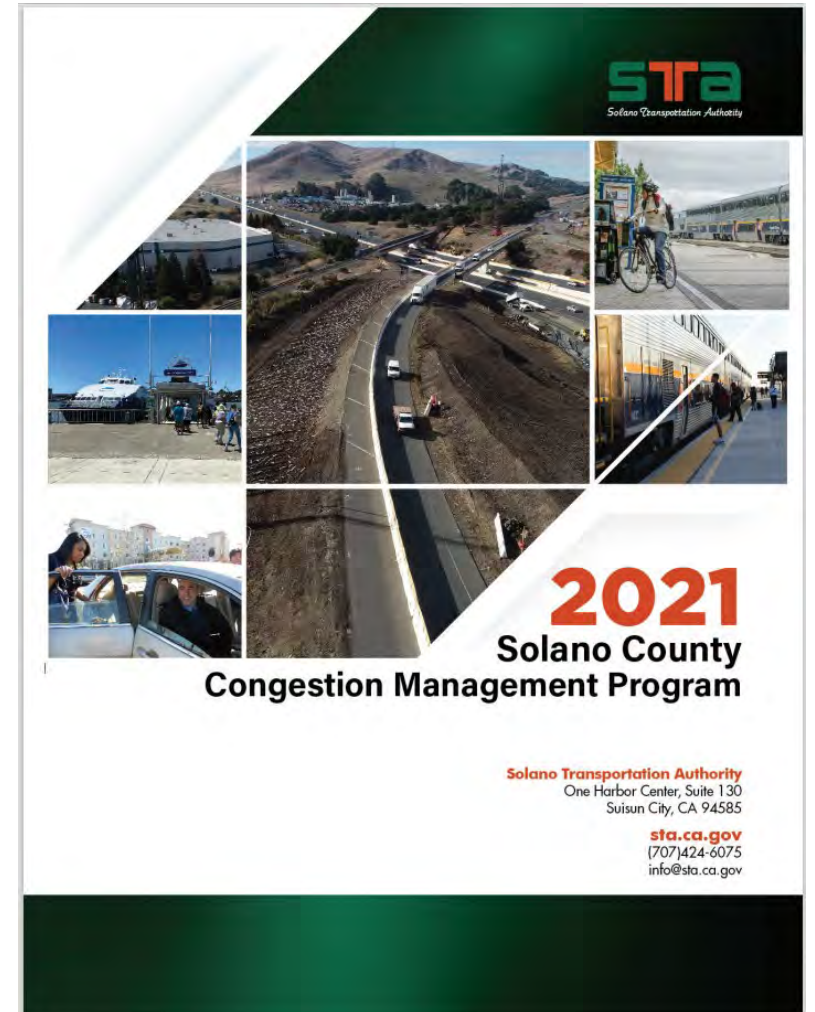
MTC Equity Definition:  
Just inclusion in the Bay Area  
where everyone can participate,  
prosper and reach their full  
potential





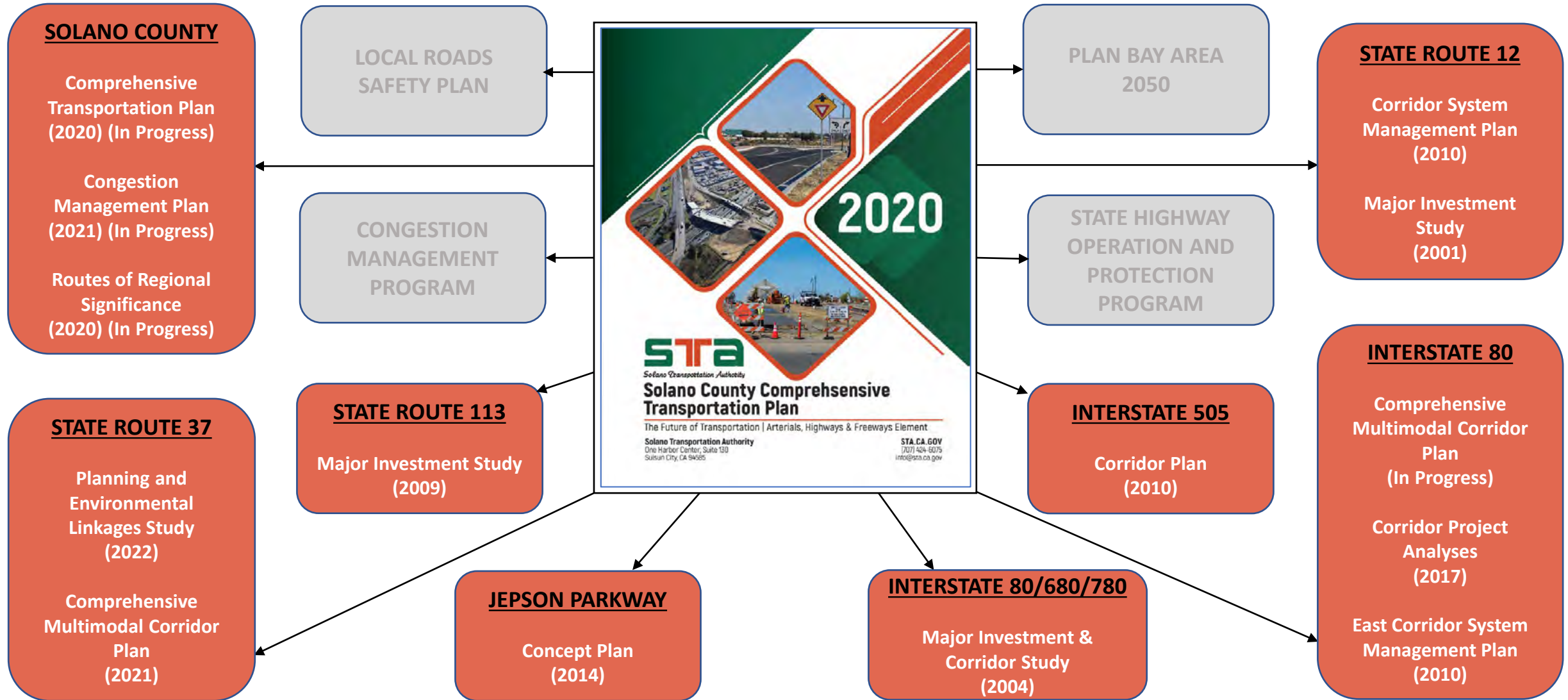
# Congestion Management Program

The Congestion Management Program is mobility monitoring and planning tool used to mitigate congestion on the county's roadways. It is specifically required to measure congestion levels on all state-owned roadways, as well as several local arterials and includes a seven-year Capital Improvement Program to address the findings. It also measures the performance on the county's transit systems, bike/pedestrian network, and Transportation Demand Management programs. The ultimate goal is to plan for and mitigate congestion either before it occurs, or before it worsens.



Questions?

# Corridor Plans and Studies



# Corridor Plans and Studies

- [Solano County Comprehensive Transportation Plan \(CTP\) - Arterials, Highways, & Freeways Element 2020](#)
- [Solano County Congestion Management Program \(CMP\) 2021](#)
- [Solano County Routes of Regional Significance 2020](#)
- [Solano Countywide Pothole Report 2019](#)
- [Solano Countywide Pothole Report 2019 - City Summaries](#)
- [Solano County Regional Transportation Impact Fee \(RTIF\) Annual Report FY 2021-22](#)
- [I-80 Comprehensive Multimodal Corridor Plan \(CMCP\) 2023](#)
- [I-80/I-680/I-780 Major Investment & Corridor Study 2004 \(Part 1\)](#)
- [I-80/I-680/I-780 Major Investment & Corridor Study 2004 \(Part 2\)](#)
- [I-505 Corridor Plan 2010](#)
- [SR 12 Corridor System Management Plan \(CSMP\) 2010](#)
- [SR 12 Major Investment Study \(MIS\) 2001](#)
- [SR 12 Caltrans SHOPP Presentation Feb 2023](#)
- [SR 29 Caltrans SHOPP Presentation May 2023](#)
- [SR 37 Corridor Planning and Environmental Linkages \(PEL\) Study 2022](#)
- [SR 37 Comprehensive Multimodal Corridor Plan \(CMCP\) 2021](#)
- [SR 113 Major Investment Study \(MIS\) 2009](#)
- [Jepson Parkway Concept Plan 2014](#)
- [North Connector Corridor Transportation for Livable Communities Concept Plan 2008](#)

List is located on last page of meeting packet.

# Completed Projects Since Last CTP

\*This is not the full list of completed projects\*

- STA

- York Street Bus Stop Extension
- I-80/West Texas St Ramp Improvements
- I-80/I-680/SR 12 Interchange Package 2A
- Fairgrounds Drive Bus Improvements

- Local

- McCormack Road Improvements Phase 1
- Suisun City's Railroad Ave Pavement Rehab (Sunset Ave to Marina Blvd)
- Midway Rd Roadway Preservation (I-80 to Porter Rd)



York St Bus Stop



I-80/I-680/SR 12



FTC I-80 Slip Ramp



# Current Projects

\*This is not the full list of projects in progress\*

- Caltrans/STA
  - SR 12/Church Road Intersection (ROW)
- Local
  - Fairfield/Vacaville Hannigan Station Improvements (CON)
  - Jepson Parkway Phases:
    - 1B (CON)
    - 2B (PS&E/ROW)
    - 2C (PS&E)
  - I-505/Vaca Valley Parkway (PS&E)



SR 12 & Church Rd



Hannigan Station



Jepson Pkwy

# Current Projects (cont'd)

\*This is not the full list of projects in progress\*

- MTC/STA
  - SR 37 Interim Project - Sears Point to Mare Island (PS&E)
- STA
  - SR37/Fairgrounds Drive Interchange (CON 2024)
  - I-80 WB Cordelia Truck Scale Relocation (ROW)
- Local
  - Vallejo Ferry Mobility Hub Improvements (CON 2024)



Fairgrounds Dr Divergent Diamond Interchange



I-80 WB Truck Scales





# I-80 EXPRESS LANES

## Yolo 80 Corridor Improvements Project

- ▶ 20.8 miles
- ▶ I-80: West El Camino Avenue to Kidwell Rd
- ▶ I-50: I-80/I-50 interchange to I-50/I-5 interchange
- ▶ Construction estimated to begin Fall 2025

## Dixon Gap Project

- ▶ I-505 to the Yolo/Solano County Line
- ▶ Request Caltrans D4 to issue PID

## Red Top Road to I-505

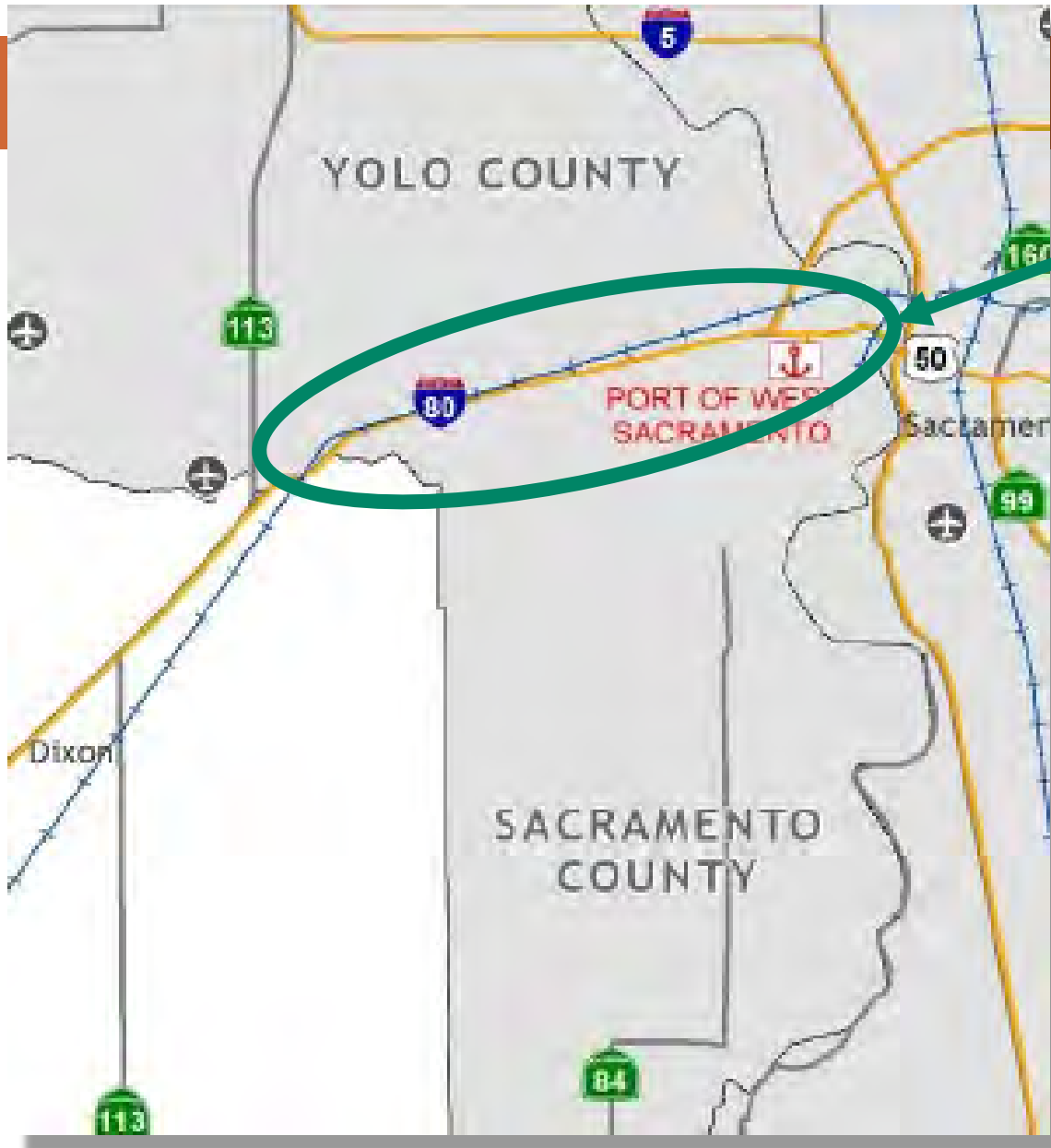
- ▶ 18 miles (10 miles of new lanes)
- ▶ Construction begins May 2022

## Vallejo Segment

- ▶ Project Study Report (PSR) Completed



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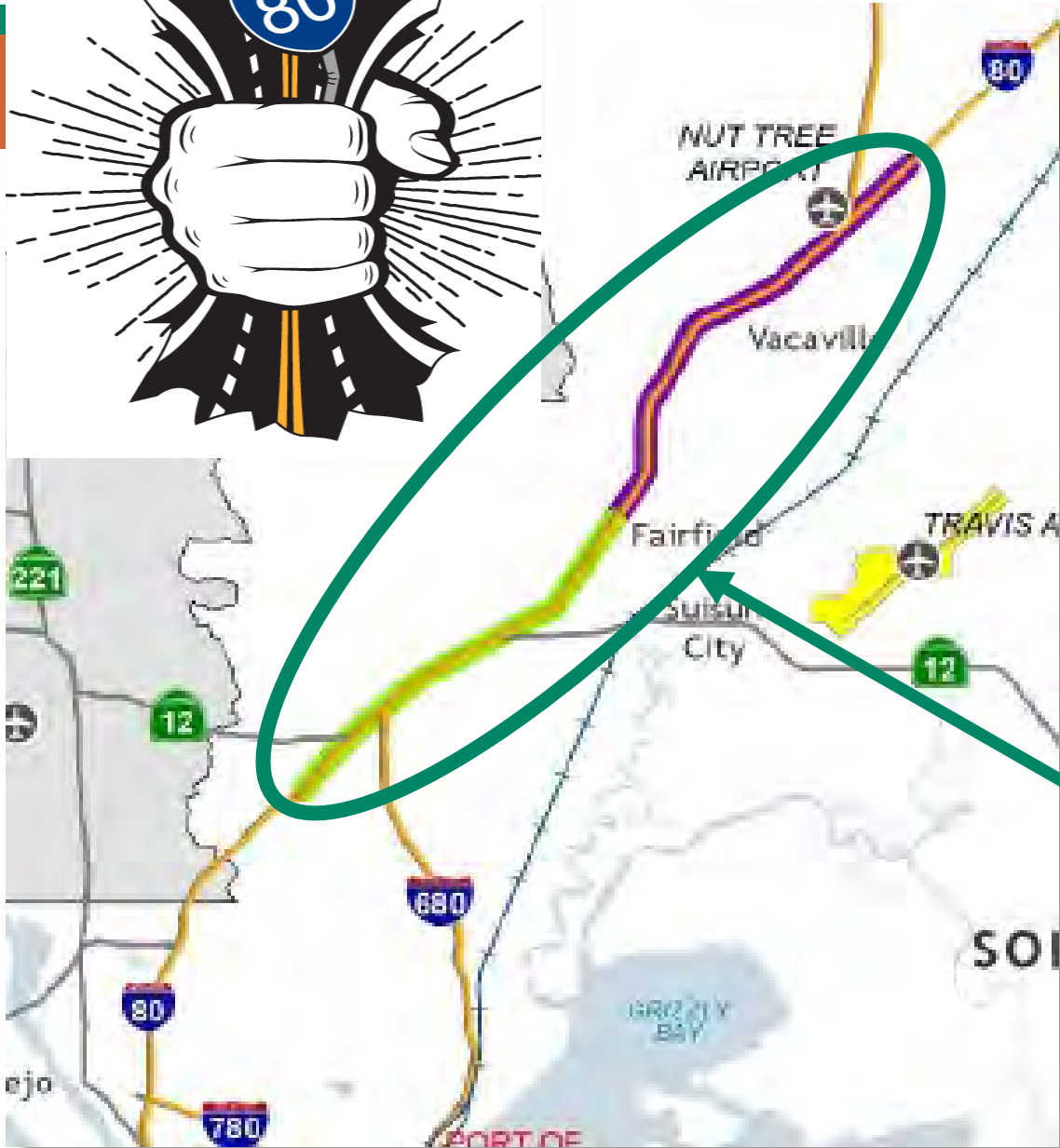
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- ▶ Request Caltrans D4 to issue PID

## Red Top Road to I-505

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- ▶ Completion scheduled for Summer 2025

## Vallejo Segment

- ▶ Red Top Road to Carquinez Bridge
- ▶ Pursuing funding for Environmental Document



# I-80 EXPRESS LANES – CURRENT PHASE



# I-80 EXPRESS LANES – FUTURE PHASES





# I-80 EXPRESS LANES – FUTURE PHASES

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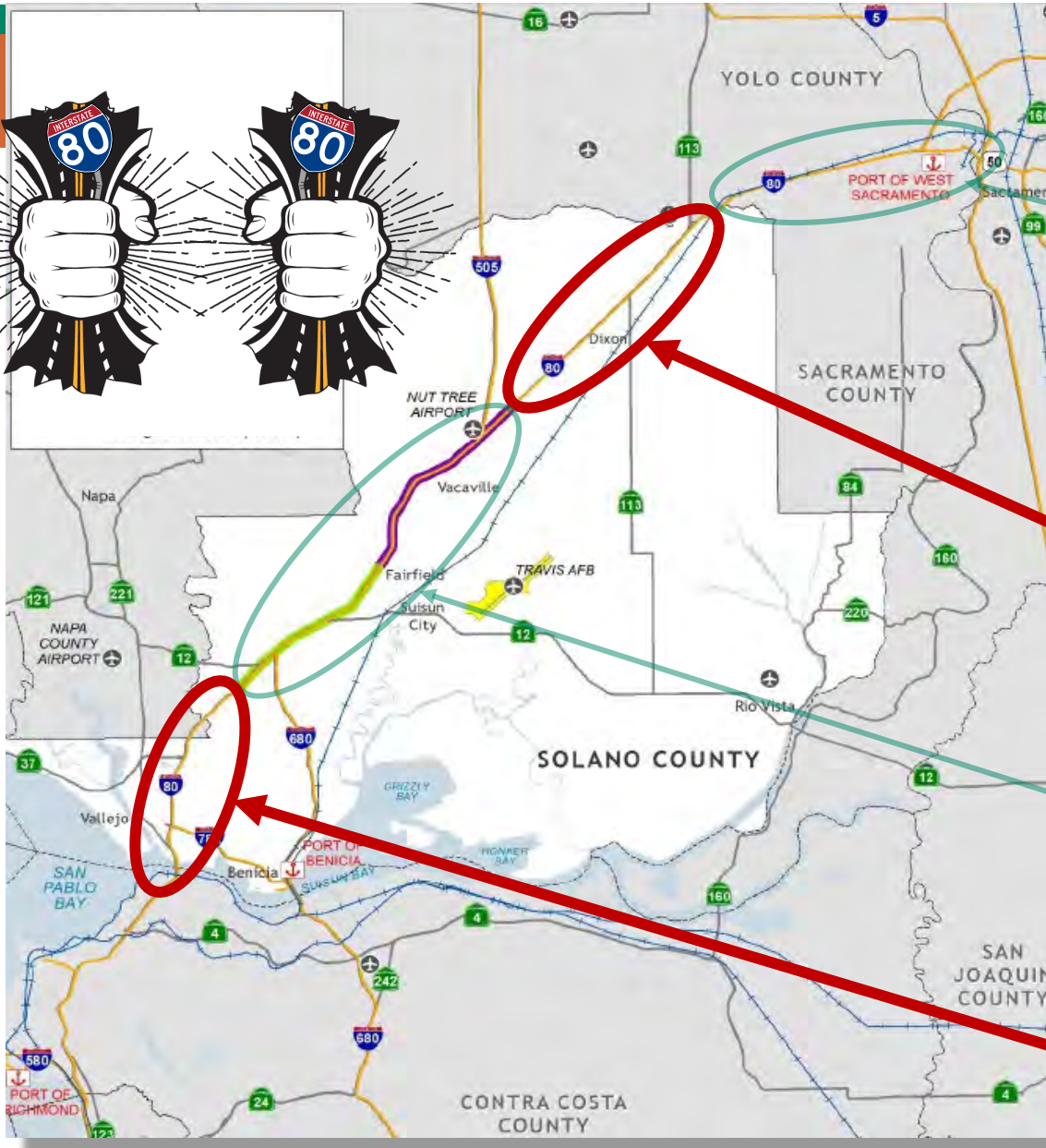
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- ▶ Construction began May 2022

## Vallejo Segment

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Questions?

## Arterials, Highways, and Freeways – Trivia Question #2

What is Solano County's average Pavement Condition Index (PCI) for local streets and roads over the last three years?



64



67




75


# Arterials, Highways, and Freeways – Trivia Question #2

What is Solano County's average Pavement Condition Index (PCI) for local streets and roads over the last three years?



	2015	2016	2017
Benicia	57	56	55
Dixon	72	69	68
Fairfield	71	72	71
Rio Vista	57	56	60
Solano County	79	80	81
Suisun City	55	58	60
Vacaville	69	69	69
Vallejo	49	51	53
<b>Countywide</b>	<b>66</b>	<b>64</b>	<b>65</b>

 **64**

 **67**

 **75**

<b>Very Good-Excellent</b> (PCI = 80-100)	Pavements are newly constructed or resurfaced and have few if any signs of distress.
<b>Good</b> (PCI = 70-79)	Pavements require mostly preventive maintenance and have only low levels of distress, such as minor cracks or spalling, which occurs when the top layer of asphalt begins to peel or flake off as a result of water permeation.
<b>Fair</b> (PCI = 60-69)	Pavements at the low end of this range have significant levels of distress and may require a combination of rehabilitation and preventive maintenance to keep them from deteriorating rapidly.
<b>At Risk</b> (PCI = 50-59)	Pavements are deteriorated and require immediate attention including rehabilitative work. Ride quality is significantly inferior to better pavement categories.
<b>Poor</b> (PCI = 25-49)	Pavements have extensive amounts of distress and require major rehabilitation or reconstruction. Pavements in this category affect the speed and flow of traffic significantly.
<b>Failed</b> (PCI = 0-24)	Pavements need reconstruction and are extremely rough and difficult to drive.

\* Source: MTC, September 2018 *The Pothole Report: Bay Area Roads at Risk*



# Committee Members' Round Table

# Future Topics

Next AHFC Meeting: (Wednesday, **December 13**, 2023)

- Introduction to federal/state/local funding sources
- Presentations of AHF project priorities from each of the seven Cities and unincorporated County
  - STA staff will be in communication with member agencies to present their jurisdictions' AHF project priorities
  - Committee members are encouraged to engage with their respective city staff to understand each community's project priorities