



# **AGENDA**

## ***Executive Committee Meeting***

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### **Committee Members**

Andrew Do, Chairman  
Mark A. Murphy, Vice Chairman  
Lisa A. Bartlett  
Michael Hennessey  
Steve Jones  
Tim Shaw

Orange County Transportation Authority  
Headquarters  
Conference Room 07  
550 South Main Street  
Orange, California  
**Monday, April 5, 2021 at 9:00 a.m.**

Any person with a disability who requires a modification or accommodation in order to participate in this meeting should contact the Orange County Transportation Authority (OCTA) Clerk of the Board, telephone (714) 560-5676, no less than two (2) business days prior to this meeting to enable OCTA to make reasonable arrangements to assure accessibility to this meeting.

Agenda descriptions are intended to give members of the public a general summary of items of business to be transacted or discussed. The posting of the recommended actions does not indicate what action will be taken. The Committee may take any action which it deems to be appropriate on the agenda item and is not limited in any way by the notice of the recommended action.

All documents relative to the items referenced in this agenda are available for public inspection at [www.octa.net](http://www.octa.net) or through the Clerk of the Board's office at the OCTA Headquarters, 600 South Main Street, Orange, California.

### **Guidance for Public Access to the Board of Directors/Committee Meeting**

On March 12, 2020 and March 18, 2020, Governor Gavin Newsom enacted Executive Orders N-25-20 and N-29-20 authorizing a local legislative body to hold public meetings via teleconferencing and make public meetings accessible telephonically or electronically to all members of the public to promote social distancing due to the state and local State of Emergency resulting from the threat of Novel Coronavirus (COVID-19).

In accordance with Executive Order N-29-20, and in order to ensure the safety of the OCTA Board of Directors (Board) and staff and for the purposes of limiting the risk of COVID-19, in-person public participation at public meetings of the OCTA will not be allowed during the time period covered by the above-referenced Executive Orders.

Instead, members of the public can listen to AUDIO live streaming of the Board and Committee meetings by clicking the below link:

<http://www.octa.net/About-OCTA/Who-We-Are/Board-of-Directors/Live-and-Archived-Audio/>



## **Guidance for Public Access to the Board of Directors/Committee Meeting (Continued)**

Public comments may be submitted for the upcoming Board and Committee meetings by emailing them to [ClerkOffice@octa.net](mailto:ClerkOffice@octa.net).

If you wish to comment on a specific agenda Item, please identify the Item number in your email. All public comments that are timely received will be part of the public record and distributed to the Board. Public comments will be made available to the public upon request.

In order to ensure that staff has the ability to provide comments to the Board Members in a timely manner, please submit your public comments **30 minutes prior to the start time of the Board and Committee meeting date.**

### **Call to Order**

### **Roll Call**

### **Pledge of Allegiance**

Director Shaw

#### **1. Public Comments**

### **Special Calendar**

There are no Special Calendar matters.

### **Consent Calendar (Items 2 and 3)**

All items on the Consent Calendar are to be approved in one motion unless a Committee Member or a member of the public requests separate action or discussion on a specific item.

#### **2. Approval of Minutes - March 29, 2021**

Approval of the minutes of the Special Executive Committee meeting of March 29, 2021.

#### **3. Approval of Minutes - March 1, 2021**

Approval of the minutes of the Executive Committee meeting of March 1, 2021.



## **Regular Calendar**

### **4. Measure M2 2020 Update: Next 10 Delivery Plan**

Francesca Ching/Kia Mortazavi

#### **Overview**

The Measure M2 Next 10 Delivery Plan aims to strategically deliver Measure M2 freeway, roadway, transit, and environmental projects through fiscal year 2030. A comprehensive review was recently conducted to account for updates to the Measure M2 sales tax revenue forecast, external funding assumptions, and project cost estimates. In December 2020, the Board of Directors was presented with options to manage the impacts of the changes. Based on feedback, staff has updated the Measure M2 Next 10 Delivery Plan. The goals are to ensure fulfillment of the Measure M2 commitments, maintain fiscal sustainability, and strive to deliver transportation benefits early. The results of this effort are presented to the Board of Directors for review and approval.

#### **Recommendations**

- A. Adopt the 2020 Measure M2 Next 10 Delivery Plan.
- B. Direct staff to continue to monitor revenue and project cost shifts that could affect the delivery plan and return to the Board of Directors with changes if necessary.

### **5. Proposed Amendment to the Orange County Local Transportation Authority Measure M2 Ordinance No. 3**

Adriann Cardoso/Kia Mortazavi

#### **Overview**

The voter-approved Measure M2 Ordinance No. 3 requires that local jurisdictions meet a maintenance of effort requirement to remain eligible to receive Measure M2 funding. Local jurisdictions are continuing to experience uncertainties in general fund revenues due to the coronavirus pandemic, which is anticipated to impact their ability to meet the maintenance of effort requirement. In response to these impacts, the Board of Directors approved an amendment to the Measure M2 Ordinance No. 3 in June 2020 to provide flexibility on this requirement through fiscal year 2020-21. An amendment to extend the revised maintenance of effort requirement through fiscal year 2021-22 is proposed to continue assisting local jurisdictions through this period of economic uncertainty.



**5. (Continued)**

**Recommendations**

- A. Direct staff to initiate the process to amend the Orange County Local Transportation Authority Measure M2 Ordinance No. 3 to extend the fiscal year 2020-21 revised maintenance of effort requirement into fiscal year 2021-22 to continue assisting local jurisdictions through this period of economic uncertainty.
- B. Direct staff to set a date of May 24, 2021, for a public hearing and Board of Directors' action to consider adoption of the amendment to the Orange County Local Transportation Authority Measure M2 Ordinance No. 3 as it relates to the maintenance of effort requirement.

**Discussion Items**

**6. State of Cyber Security 2021**  
Michael Cardoza/Andrew Oftelie

The Orange County Transportation Authority Cyber Security Manager will be presenting the annual cyber security update to the committee.

**7. Chief Executive Officer's Report**

**8. Committee Members' Reports**

**9. Closed Session**

There are no Closed Session items scheduled.

**10. Adjournment**

The next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Monday, May 3, 2021**, at the Orange County Transportation Authority Headquarters, Conference Room 07, 550 South Main Street, Orange, California.





**Committee Members Present**

**Via Teleconference**

Andrew Do, Chairman  
Mark A. Murphy, Vice Chairman  
Lisa A. Bartlett  
Michael Hennessey  
Steve Jones  
Tim Shaw

**Staff Present**

Jennifer L. Bergener, Deputy Chief Executive Officer  
Allison Cheshire, Interim Deputy Clerk of the Board  
Sahara Meisenheimer, Deputy Clerk of the Board

**Committee Members Absent**

None

**Via Teleconference**

Darrell E. Johnson, Chief Executive Officer  
James Donich, General Counsel

**Call to Order**

The March 29, 2021, Special meeting of the Executive Committee (Committee) was called to order by Chairman Do at 9:03 a.m.

**Roll Call**

The Deputy Clerk of the Board conducted an attendance Roll Call and announced there was a quorum of the Committee present.

**Pledge of Allegiance**

Director Shaw led in the Pledge of Allegiance

**1. Public Comments**

There were no public comments received.

**Special Calendar**

There were no Special Calendar matters.

**Consent Calendar (Item 2)**

**2. Approval of Minutes**

A motion was made by Director Murphy, seconded by Director Bartlett, and following a roll call vote, declared passed 5 to 0, to approve of the minutes of the Special Executive Committee meeting of March 15, 2021.

Director Hennessey abstained from voting on this item.

## **Regular Calendar**

### **3. Public Member Candidate Selection**

Darrell E. Johnson, Chief Executive Officer, opened this item with an overview of recruitment and outreach efforts for Public Member candidates.

Chairman Do asked the Committee Members for a candidate to move forward for recommendation to the Board of Directors.

Director Jones recommended Tam Nguyen and Director Bartlett concurred.

Director Shaw recommended Roy Shahbazian.

Chairman Do and Vice Chairman Murphy both commented that all three short-listed candidates are well qualified to fill the position.

A motion was made by Director Jones, seconded by Director Bartlett, and following a roll call vote, declared passed 4-1, to recommend Tam Nguyen to advance to the Board of Directors for approval.

Director Shaw voted in opposition to the motion.

Director Hennessey abstained from voting on this item.

## **Discussion Items**

### **3. Chief Executive Officer's Report**

Darrell E. Johnson, CEO, reported staff will be hosting a meeting via Zoom to provide an update on the Interstate 405 Improvement Project and upcoming work on the Ward Street bridge. The bridge will be closed for reconstruction once the Talbert Avenue bridge reopens, which is scheduled for mid-April.

### **4. Committee Members' Reports**

There were no Committee Member's reports.

### **5. Closed Session**

There were no Closed Session items scheduled.



**6. Adjournment**

The meeting adjourned at 9:18 a.m.

The next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Monday, April 5, 2021**, at the Orange County Transportation Authority Headquarters, Conference Room 07, 550 South Main Street, Orange, California.

ATTEST

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Andrew Do  
Chairman

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Allison Cheshire  
Interim Deputy Clerk of the Board



# **MINUTES**

## ***Executive Committee Meeting***

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### **Committee Members Present via Teleconference**

Andre Do, Chairman  
Mark A. Murphy, Vice Chairman  
Lisa Bartlett  
Michael Hennessey  
Steve Jones  
Tim Shaw

### **Staff Present**

Jennifer L. Bergener, Deputy Chief Executive Officer  
Allison Cheshire, Interim Deputy Clerk of the Board  
Sara Meisenheimer, Deputy Clerk of the Board

### **Via Teleconference**

Darrell E. Johnson, Chief Executive Officer  
James Donich, General Counsel

### **Committee Members Absent**

None

## **Call to Order**

The March 1, 2021 regular meeting of the Executive Committee (Committee) was called to order By Chairman Do at 9:02 a.m.

## **Roll Call**

The Deputy Clerk of the Board conducted an attendance roll call and announced there was a quorum of the Committee.

## **Pledge of Allegiance**

Director Jones led in the Pledge of Allegiance.

### **1. Public Comments**

A public comment was received from Martin Varona via email on Sunday, February 28, 2021 at 8:44 p.m. The comment was emailed to the Members of the Committee prior to the meeting on Monday, March 1, 2021 at 8:09 a.m. The comment will be retained as part of the record for this Committee meeting.

## **Special Calendar**

There were no Special Calendar matters.

## **Consent Calendar (Items 2 and 3)**

### **2. Approval of Minutes**

A motion was made by Director Murphy, seconded by Director Bartlett, and following a roll call vote, declared passed by 5-0, to approve the minutes of the Executive Committee meeting of February 1, 2021.

Director Hennessey was not present to vote on this item.

**3. Measure M2 Quarterly Progress Report for the Period of October 2020 Through December 2020**

A motion was made by Director Murphy, seconded by Director Bartlett, and following a roll call vote, declared passed by 5-0, to receive and file this information only item.

Director Hennessey was not present to vote on this item.

**Regular Calendar**

**4. Review of Public Member Applications**

A public comment was received from Kristopher Fortin, Project Manager, Santa Ana Active Streets via email on Sunday, February 28, 2021 at 10:45 p.m. The comment was emailed to the Members of the Committee prior to the meeting on Monday, March 1, 2021 at 8:14 a.m. The comment was read into the record by the Deputy Clerk of the Board and will be retained as part of the record for this Committee meeting.

Chairman Do reported that 34 applications were received during the Public Member recruitment period and commended staff on their outreach efforts to advertise the open seat. Additionally, Chairman Do commented that he and Vice Chairman Murphy had short listed the applicants to three candidates.

Discussion ensued among the Committee Members regarding criteria in which they should use to consider candidates eligible to fulfill the vacancy on the Board, which included community involvement, experience, and represents community equity. There was additional discussion regarding adding additional candidates to the short-list.

A motion was made by Chairman Do, seconded by Vice Chairman Murphy, and following a roll call vote, declared passed 4-1 to:

- A. Direct the Chief Executive Officer to schedule a Special Executive Committee meeting for Monday, March 15, 2021 at 8:00 a.m.
- B. Approve a short list of candidates for further consideration by the Executive Committee.
- C. Direct staff to schedule interviews with each of the short-listed candidates on Monday, March 15, 2021 for the Special Executive Committee meeting.

Director Shaw voted in opposition to this item.

Director Hennessey abstained from voting on this item.

## **Discussion Items**

### **5. Sales Tax Update**

Sean Murdock, Director, Finance and Administration provided a PowerPoint presentation on the item.

Chairman Do inquired about factors that would lead to adjust service levels.

Darrel E. Johnson, Chief Executive Officer (CEO), commented that staff is looking at possible changes, if needed, based on re-opening of schools and businesses.

### **6. Chief Executive Officer's Report**

Mr. Johnson, CEO, reported on the following:

- Construction project outreach continues, and tonight staff will be presenting an update on the 405 Improvement Project to the Huntington beach City Council.
- Meetings continue with local elected officials on OCTA's projects and programs updates. A meeting was held last week with State Senator Tom Umer who represents the 34<sup>th</sup> District. A meeting is scheduled tomorrow with State Senator Pat Bates who represents the 36<sup>th</sup> District.

### **7. Committee Members' Reports**

There were no Committee Members' reports.

### **8. Closed Session**

There were no Closed Session items scheduled.



**9. Adjournment**

The meeting adjourned at 10:00 a.m.

The next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Monday, April 5, 2021**, at the Orange County Transportation Authority Headquarters, Conference Room 07, 550 South Main Street, Orange, California.

ATTEST

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Andrew Do  
Chairman

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Allison Cheshire  
Interim Deputy Clerk of the Board



***April 5, 2021***

**To:** Executive Committee  
**From:** Darrell E. Johnson, Chief Executive Officer  
**Subject:** Measure M2 2020 Update: Next 10 Delivery Plan

### **Overview**

The Measure M2 Next 10 Delivery Plan aims to strategically deliver Measure M2 freeway, roadway, transit, and environmental projects through fiscal year 2030. A comprehensive review was recently conducted to account for updates to the Measure M2 sales tax revenue forecast, external funding assumptions, and project cost estimates. In December 2020, the Board of Directors was presented with options to manage the impacts of the changes. Based on feedback, staff has updated the Measure M2 Next 10 Delivery Plan. The goals are to ensure fulfillment of the Measure M2 commitments, maintain fiscal sustainability, and strive to deliver transportation benefits early. The results of this effort are presented to the Board of Directors for review and approval.

### **Recommendations**

- A. Adopt the 2020 Measure M2 Next 10 Delivery Plan.
- B. Direct staff to continue to monitor revenue and project cost shifts that could affect the delivery plan and return to the Board of Directors with changes if necessary.

### **Background**

On November 7, 2006, Orange County voters, by nearly 70 percent, approved the Renewed Measure M Transportation Investment Plan (TIP) for the Measure M2 (M2) one-half cent sales tax to be collected for 30 years. The M2 TIP defines the scope of the programs and projects that are to be delivered, which includes four primary elements: freeways, streets and roads, transit, and environmental programs. The M2 TIP summary page is included as Attachment A.



The Orange County Transportation Authority (OCTA) is committed to fulfilling the promises made to voters in the M2 TIP. This effort began with expedited delivery plans of M2 projects and programs. To date, the Board of Directors (Board) has adopted three delivery plans: Early Action Plan in 2007, M2020 Plan in 2012 (intended to go through 2020 but replaced in 2016 to address changes in M2 revenues), and the Next 10 Delivery Plan (Next 10 Plan) in 2016, which was last updated in 2019.

OCTA receives annual updates to the M2 sales tax revenue forecasts. On October 26, 2020, the 2020 M2 sales tax revenue forecast of \$11.6 billion was presented to the Board, which is a \$1.8 billion decrease from what was assumed in the 2019 Next 10 Plan. The lower forecast is attributed to the economic impacts of the coronavirus (COVID-19) pandemic and represents the lowest forecast since M2 inception.

A report on construction market conditions key indicators analysis and forecast was presented to the Board on November 9, 2020. This provided insight on potential construction cost drivers that could affect the Next 10 Plan. The report indicated that OCTA might experience a moderate cost environment in 2021 and 2022, with the potential for a tighter construction market in 2023.

On December 14, 2020, staff presented delivery options for Board consideration and discussion to address the substantial decrease in M2 sales tax revenue. The options assessed were predicated on OCTA's ability to deliver the entire M2 TIP through 2041. The critical consideration in evaluating the options was to ensure that near-term project commitments do not jeopardize OCTA's ability to deliver M2 as promised to voters. The Board directed staff to refine the option that balanced OCTA's ability to maintain progress on near-term projects, ready additional projects for delivery, and optimize the level of debt financing that would be required to support this approach. In addition, the Board also approved the adjustment of the Next 10 Plan timeframe from fiscal year (FY) 2016-17 through FY 2025-26 to FY 2020-21 through FY 2029-30. Lastly, with the uncertainties of COVID-19, the Board requested that staff await the release of the sales tax revenue information through December 2020 before presenting the updated Next 10 Plan.

On March 8, 2021, staff provided an update to the Board on sales tax revenue receipts through December 2020. The data showed that sales tax collections are consistent with the projections presented to the Board in October 2020, and that the total forecasted M2 sales tax revenues remain at \$11.6 billion.

***Discussion***

The Next 10 Plan, as well as prior delivery plans, were developed based on three fundamental principles: fulfill the commitment to voters, ensure fiscal sustainability, and implement projects and programs effectively and expeditiously. First, the annual review of the Next 10 Plan tests and validates whether the complete M2 Program can be delivered consistent with the commitments promised to voters. Second, financial analysis of the latest revenue forecast and project cost information ensures that the rate of expenditures is financially sustainable and that M2 can withstand economic fluctuations over the life of M2 through 2041. Third, the Next 10 Plan aims to implement projects and programs effectively and expeditiously so the public can realize the benefits of M2 as early as possible.

Per Board direction, the 2020 update of the Next 10 Plan, included as Attachment B, maintains progress on near-term projects and readies additional projects for delivery while optimizing the level of debt financing. The 2019 Next 10 Plan served as the baseline to define prior commitments. The 2020 Next 10 Plan also incorporates the Board-approved \$11.6 billion M2 revenue forecast, along with revised external revenue assumptions and refined project estimates. Given the new timeframe and financials, the Next 10 Plan deliverables were also reviewed and updated; they are included in Attachment C.

The 2019 Next 10 Plan included a significant allowance for economic uncertainties to ensure OCTA can sustain financial fluctuations. Through this strategic financial planning, the 2020 Next 10 Plan confirms that the M2 TIP remains deliverable. The update also continues to maintain prudent annual ending balances and an economic uncertainties allowance. An M2 cash flow summary chart showing a positive ending balance through 2041 is included as Attachment D.

Looking to the future, sales tax revenues will continue to fluctuate due to unpredictable changes in the economy, but changes in revenues do not alter the M2 project and program scopes. Some of the strategies that OCTA will continue to employ to uphold voter-commitments include using innovative project delivery methods, managing the scope and cost of remaining freeway projects in conjunction with the California Department of Transportation, taking advantage of competitive construction market conditions, and pursuing external grant to supplement M2 funds.

The following sections provide a brief overview of what is included in the 2020 Next 10 Plan.

### M2 Freeway Program

While the majority of M2 programs can be scaled as sales tax collections fluctuate, the M2 Freeway Program cannot, due to defined project scopes. The M2 Freeway Program consists of 13 projects listed in the M2 TIP, which have been subdivided into 30 project segments for delivery purposes. As of December 2020, 12 project segments have been completed, five are in construction, and seven are initiating design/readying for construction. The remaining six project segments are currently in project development.

The 2020 Next 10 Plan incorporates the Board's direction in December 2020 to keep the freeway projects that were advanced in 2019 on track and proposes to deliver 14 project segments through construction by FY 2029-30. In particular, the 2019 Next 10 Plan included the delivery of Project F: State Route 55 (SR-55) between Interstate 5 (I-5) and State Route 91 by 2028. Initially, the 2020 M2 sales tax revenue forecast made delivery of this project, as planned in 2019, a challenge. Five factors allow for the 2020 Next 10 Plan to overcome some financial hurdles to be able to continue project delivery progress.

1. OCTA secured \$140 million of state funding for Project F: SR-55 from Interstate 405 to I-5. The infusion of these funds in the near-term provides greater financial flexibility.
2. Revised bond interest rate assumptions provide OCTA with improved financial capacity.
3. Project cash flows were refined and resulted in a more even distribution of costs.
4. The 2019 Next 10 Plan included an allowance for economic uncertainties in the long term. The increased bond issuance assumed in the 2020 Next 10 Plan is made possible by accessing a portion of the economic uncertainties in future years when anticipated project costs are lower.
5. The 2020 Next 10 Plan maintains one bond issuance in 2023; however, the amount has increased by approximately \$275 million from the 2019 Next 10 Plan.

The 2020 Next 10 Plan will result in 26 of 30 freeway segments to be complete by 2030 when considering projects completed in the first decade of the plan. This outcome fulfills the goal of delivering project benefits early, despite multiple extraordinary financial events that have affected M2 revenues. The 2020 Next 10 Plan update ensures that the four remaining M2 Freeway Program projects will be delivered by 2041. These projects will continue to be reevaluated for an earlier delivery as the Next 10 Plan is reviewed annually.

Included in the M2 Freeway Program is the Environmental Mitigation Program. With the seven mitigation properties already purchased and 12 restoration projects completed, or underway, recurring costs are for management and support, as well as an annual deposit of approximately \$2.9 million to fund a non-wasting endowment. The 2020 Next 10 Plan confirms that OCTA will be able to continue endowment deposits of \$2.9 million annually; the performance of the endowment fund may affect the time frame for full funding. Current projections indicate that OCTA remains on track to meet the endowment target of \$46.2 million in FY 2027-28.

#### Streets and Roads Program

The M2 streets and roads elements are programmatic and can scale to available revenues. The M2 Streets and Roads Program includes three programs: Regional Capacity Program (RCP {Project O}), Regional Traffic Signal Synchronization Program (RTSSP {Project P}), and the Local Fair Share Program (Project Q). The RCP makes funding available on an annual basis as a resource to local agencies to address local roadway bottlenecks and close gaps in the roadway network. The RTSSP provides ongoing funding support to ensure a network of 2,000 intersections across the County remain coordinated to minimize stop-and-go traffic. Lastly, the 2020 Next 10 Plan will continue to provide funding to local jurisdictions to improve and maintain streets. The assumptions for the funding of the three programs remain on a “pay-as-you-go” basis. This will ensure annual call for projects (call) for Project O and Project P, as well as a reliable, flexible funding source for local jurisdictions for transportation improvements through 2041.

#### Transit Program

The M2 Transit Program includes funding for Metrolink operations, station and infrastructure improvements (Project R), implementation of the OC Streetcar (Project S), expanded mobility for seniors and persons with disabilities (Project U), funding for community-based transit circulators (Project V), and enhanced passenger amenities for Orange County’s busiest transit stops (Project W).

Metrolink service continues to be greatly impacted by COVID-19. The FY 2020-21 budget for the Metrolink operating subsidy is based on 45 weekday trips, which is a reduction of nine weekday trips due to the impact of COVID-19 to ridership. In November 2020, Metrolink implemented further service reduction to 41 weekday trips. While the \$64.6 million of Coronavirus Aid, Relief and Economic Security Act funds (approved by the Board in July 2020) have helped

offset fare revenue shortfalls in the near term, Metrolink service relies on an operating subsidy, which OCTA funds through M2. Federal funding is also used to offset some of the capital costs of the service. Depending on Metrolink ridership, recovery projections, and future service level assumptions, maintaining pre-COVID-19 service or expansion of service may no longer be feasible. With the reduced revenue forecast, the 2020 Next 10 Plan assumes the operating subsidy to maintain current service levels. OCTA will continue to actively engage with Metrolink and other member agencies and monitor ridership levels and the corresponding financial impacts to M2.

Project S funds the capital and long-term operating cost of the OC Streetcar. The reduced revenues do not impact the delivery of the OC Streetcar. Yet, the amount of funding available to extend the reach of Metrolink service will decrease from nearly \$800 million in the 2019 Next 10 Plan to approximately \$628 million available for capital and operations of any future extensions to Metrolink.

Project U is made up of three programs: Senior Mobility Program, Senior Non-Emergency Medical Transportation Program, and Fare Stabilization Program. While all three programs adjust to available revenue, the Fare Stabilization Program requires a minimum level of funding. This presented a challenge as that minimum level of funding did not contemplate significant decreases in sales tax revenues. As such, OCTA proactively addressed this dual requirement with an early amendment to the M2 Ordinance to provide additional funding.

Both Project V and Project W are funded on a pay-as-you-go basis. Although the majority of Project V services remain suspended due to COVID-19, OCTA continues to communicate with cities to help preserve grant funds and assess future service resumption. Through Project W, OCTA will continue to invest in amenities at the County's busiest transit stops.

#### Environmental Cleanup Program

The Environmental Cleanup Program (ECP) also adjusts to available revenues and is funded on a pay-as-you-go basis. ECP projects prevent the flow of trash and debris into waterways. The 2020 Next 10 Plan continues to commit to annual Tier 1 calls. The next Tier 2 call is anticipated in 2022, with future calls determined based on local jurisdiction interest and cash flow analysis.

### Key Risks and Actions to Protect M2 Delivery

While the M2 Program continues to demonstrate financial stability, OCTA remains cognizant and continues to monitor delivery risks. A table of risks is included on pages six through eight in Attachment B, with two key risks highlighted below.

- **Funding** – The COVID-19 pandemic added a new layer of uncertainty for sales tax revenues. While an allowance for economic uncertainties provides some financial security, additional revenue fluctuations will need to be carefully monitored. In addition, state and federal priorities continue to shift, which affect future external funding opportunities for the M2 Freeway Program. Current external funding commitments are assumed in the M2 cash flow for the 2020 Next 10 Plan, but the prospects of future revenues for highway projects are low.
- **Regulatory Risks** – Current state planning and project approval policies place great emphasis on reducing travel by automobile and encourage project alternatives that promote short trips where possible, travel by transit, bicycling or walking, and use of zero-emission vehicles. These requirements will affect the project environmental review process. The majority of M2 freeway projects, where this risk could manifest itself, have obtained the necessary approvals, but if the approvals require a review or revision, these new requirements could impact delivery.

Updated revenue assumptions and commitments result in a delivery plan that ensures the M2 promises to voters are upheld. This balanced plan not only allows OCTA to maintain current commitments but will also allow OCTA to weather reasonable changes to cost or revenues in the future.

### ***Summary***

Staff has reviewed and updated the Next 10 Plan with the \$11.6 billion forecast, revised external funding, and refined project costs. Despite the lower forecast, prudent financial decisions to date result in a delivery plan that fulfills OCTA's commitment to the voters of Orange County. The 2020 updated Next 10 Plan is presented for Board review and approval.

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***Attachments***

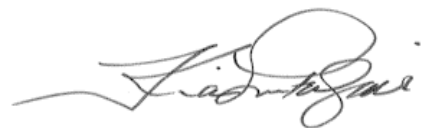
- A. Measure M Investment Summary
- B. 2020 Update, Next 10 Delivery Plan, 2021-2030, Draft
- C. 2020 Updated Next 10 Delivery Plan – Ten Balanced Deliverables
- D. 2020 Updated Next 10 Delivery Plan, M2 Program Cash Balance

**Prepared by:**



Francesca Ching  
Section Manager,  
Measure M2 Program Management Office  
(714) 560-5625

**Approved by:**



Kia Mortazavi  
Executive Director, Planning  
(714) 560-5741



## Measure M Investment Summary

LOCATION		PROJECTS	COSTS 2005 estimates in millions	
<b>Freeway Projects (in millions)</b>				<b>\$4,871.1</b>
I-5	Santa Ana Freeway Interchange Improvements	A	\$470.0	
I-5	Santa Ana/San Diego Freeway Improvements	B C D	1,185.2	
SR-22	Garden Grove Freeway Access Improvements	E	120.0	
SR-55	Costa Mesa Freeway Improvements	F	366.0	
SR-57	Orange Freeway Improvements	G	258.7	
SR-91	Riverside Freeway Improvements	H I J	908.7*	
I-405	San Diego Freeway Improvements	K L	1,392.5*	
I-605	Freeway Access Improvements	M	20.0	
All	Freeway Service Patrol	N	150.0	
<b>Streets &amp; Roads Projects (in millions)</b>				<b>\$3,625.0</b>
	Regional Capacity Program	O	\$1,132.8	
	Regional Traffic Signal Synchronization Program	P	453.1	
	Local Fair Share Program	Q	2,039.1	
<b>Transit Projects (in millions)</b>				<b>\$2,832.0</b>
	High Frequency Metrolink Service	R	\$1,129.8*	
	Transit Extensions to Metrolink	S	1,000.0	
	Metrolink Gateways	T	57.9*	
	Expand Mobility Choices for Seniors and Persons with Disabilities	U	392.8*	
	Community Based Transit/Circulators	V	226.5	
	Safe Transit Stops	W	25.0	
<b>Environmental Cleanup (in millions)</b>				<b>\$237.2</b>
	Clean Up Highway and Street Runoff that Pollutes Beaches	X	\$237.2	
<b>Taxpayer Safeguards and Audits (in millions)</b>				<b>\$296.6</b>
	Collect Sales Taxes (State charges required by law)		\$178.0	
	Oversight and Annual Audits		118.6	
<b>Total (2005 dollars in millions)</b>				<b>\$11,861.9</b>

\*Asterisk notes project estimates that have been amended since 2006.



2020  
UPDATE

# NEXT 10

## DELIVERY PLAN

2021-2030

DRAFT



UPDATED APRIL 2021



**On April 12, 2021 the Orange County Transportation Authority Board of Directors (Board) will consider adoption of the Draft 2020 Updated Next 10 Delivery Plan (Next 10 Plan). Per Board approval in December 2020, the timeframe of the Next 10 Plan has been shifted from fiscal year (FY) 2016-17 through FY 2025-26 to FY 2020-21 through FY 2029-30. As such, original commitments have been reviewed and adjusted accordingly. The Draft 2020 Next 10 Plan also incorporates refined project information including cost estimates, schedules, and available external funding.**

**Printed April 2021**

**For the latest version of the Next 10 Plan,  
including any edits or corrections,  
please visit: [www.octa.net/Next10](http://www.octa.net/Next10)**

**For status updates on M2 projects and programs,  
including quarterly progress reports,  
please visit: [www.octa.net/m2](http://www.octa.net/m2)**

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**2020**  
UPDATE

# NEXT 10

## DELIVERY PLAN

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### Introduction

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# 2020 UPDATE **NEXT 10** DELIVERY PLAN

## Introduction

On November 7, 2006, Orange County voters, by a margin of 69.7 percent, approved the renewal of the Measure M one-half cent sales tax for transportation improvements. Voters initially endorsed Measure M (M1) in 1990 with a sunset in 2011. With the approval of Renewed Measure M2 (M2), the voters agreed to a continued investment of local tax dollars in Orange County's transportation infrastructure for another 30 years to 2041.

Since M2 (also branded externally as OC Go) approval, the Orange County Transportation Authority (OCTA) Board of Directors (Board) has continued to pursue the expeditious implementation of M2 through the adoption of a series of early delivery plans. These early delivery plans are designed to ensure the delivery of all projects and programs as promised to the voters. The goal is to bring transportation improvements to Orange County residents and commuters earlier, and as appropriate, address changes in sales tax revenue projections through strategic financing and augmenting the M2 Program with external revenue. To date, there have been three early delivery plans: Early Action Plan (EAP) adopted in 2007, M2020 Plan adopted in 2012 (intended to go through 2020), and the Next 10 Delivery Plan (Next 10 Plan) adopted on November 14, 2016. Due to changes in sales tax revenue projections, the M2020 Plan was replaced after four years with the Next 10 Plan that covered FY 2016-17 through FY 2025-26. In December 2020, the Board approved a shift of the Next 10 Plan timeframe to span FY 2020-21 through FY 2029-30. See the M2 Timeline on the following page.

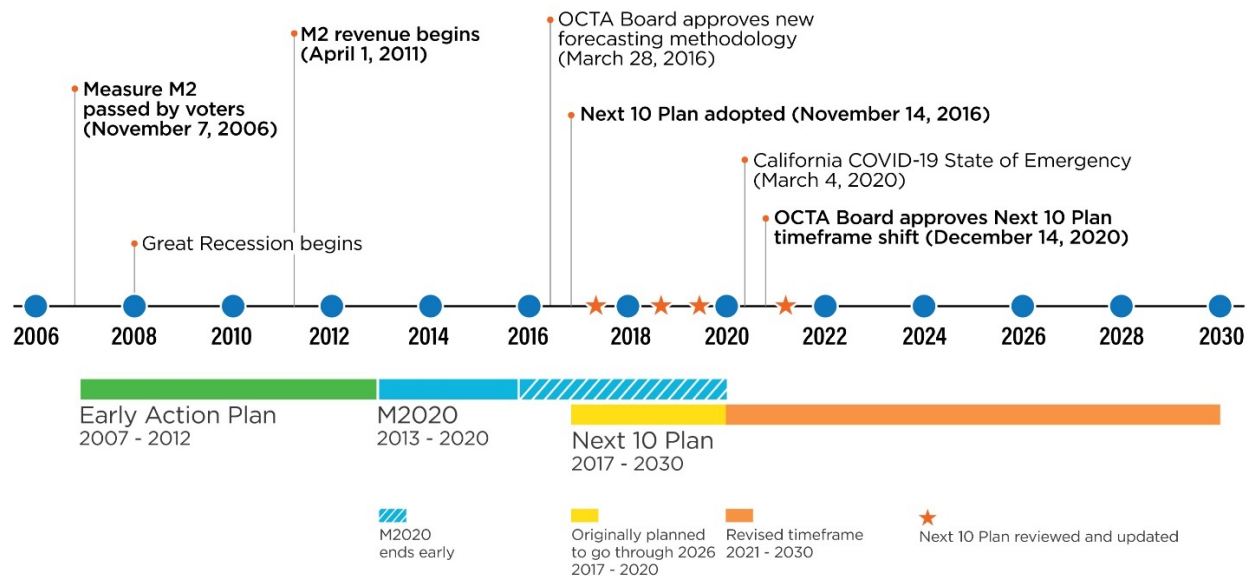
To ensure and reconfirm the ability to deliver the Next 10 Plan, annual reviews and updates have taken place incorporating changes in sales tax revenue forecast assumptions, external revenue, and project cost and schedule refinement.

A summary of the adopted plan and annual updates of the base assumptions follow:

- The 2016 adopted Next 10 Plan set M2 project and program priorities based on a revenue forecast of \$14.2 billion through 2041. The Next 10 Plan revenues were augmented by net excess 91 Express Lanes revenue, in an amount not to exceed the project costs for two eligible projects on State Route 91 (SR-91) - Project I between State Route 57 (SR-57) and State Route 55 (SR-55) and Project J between State Route 241 (SR-241) and the Riverside County line. Net Excess 91 Express Lanes revenue is designated to improvements on the 91 Corridor.

- The 2017 update incorporated a revised \$13.5 billion revenue forecast and required bonding adjustments and inclusion of the full amount of eligible excess 91 Express Lanes revenue. The update also designated Project I as one of the priority projects for advancement and included plans to initiate construction by 2026.
- The 2018 update incorporated a revised \$13.1 billion revenue forecast offset by an early \$300 million increase in captured external revenue. The update also responded to construction market concerns of potential project cost increases in the freeway program by incorporating a program level line item for economic uncertainty to ensure OCTA could weather fluctuations in M2 revenue receipts. The 2018 update anticipated up to four bond issuances during the Next 10 Plan period to accommodate market changes if necessary.
- The 2019 update incorporated a revised \$13.4 billion revenue forecast, which was the first increase in the M2 forecast since 2014. The increase was driven by the growing economy and the implementation of the Wayfair decision in California. The Wayfair related legislation enabled the collection of sales tax for out-of-state transactions. As a result of the decision, increased sales tax receipts were incorporated in the short-term forecast provided by MuniServices, LLC, which increased the overall long-term forecast.

## M2 Timeline



## **2020 Review**

The coronavirus (COVID-19) pandemic has introduced new pressures to sales tax revenues and on the M2 program as a whole. With the uncertainties of the economic impacts of COVID-19, staff provided frequent updates to the Board as information became available. On August 24, 2020, a preliminary M2 sales tax revenue forecast of \$11.6 billion was presented to the Board. Following the FY 2019-20 fourth quarter tax receipts, on October 26, 2020, the M2 sales tax revenue forecast was finalized and confirmed to remain at \$11.6 billion. This represents a year-over-year \$1.8 billion decrease and the lowest forecast since M2 inception.

To address the significant reduction in sales tax revenues, staff explored options to manage the impacts. On December 14, 2020, three options were presented to the Board for discussion and consideration. The Board directed staff to refine the option that balanced OCTA's ability to maintain progress on near-term projects, ready additional projects for delivery, and optimize the level of debt financing that would be required to support this approach. Given the fluidity of current events, the Board requested that staff await the release of sales tax revenue information through December 2020 before presenting an updated Next 10 Plan. In addition, the Board approved the adjustment of the Next 10 Plan timeframe from FY 2016-17 through FY 2025-26 to FY 2020-21 through FY 2029-30.

On March 8, 2021, staff provided an update to the Board on sales tax revenue information through December 2020. The data showed that sales tax collections remain consistent with the projections presented to the Board in October 2020 and that the total forecasted M2 sales tax revenues remains at \$11.6 billion.

For this effort, staff reviewed and updated the cash flow for the complete M2 plan of projects and programs. The 2020 update incorporates the lower M2 sales tax revenue forecast, current programmed external revenue, revised bonding assumptions to maintain project delivery schedules, and refined project cost estimates. Due to the Next 10 Plan timeframe adjustment, commitments have been adjusted as appropriate. Through this process, staff confirmed that the M2 Program remains deliverable.

## **Next 10 Plan Delivery Risks**

While the M2 Program continues to demonstrate financial viability, OCTA remains cognizant of the delivery risks of M2 projects and programs. A table of identified risks are included on pages 6 through 8 with two key risks highlighted below.

Funding – The COVID-19 pandemic has added a new layer of uncertainty for sales tax revenues. While an allowance for economic uncertainties provides some financial security, additional revenue fluctuations will need to be carefully monitored. In addition, state and federal priorities continue to shift, which reduce future external funding opportunities for the M2 freeway program. Current external funding commitments are assumed in the M2 cash flow for the 2020 Next 10 Plan, but prospects of future revenues

for highway projects is low. This is because current state policies favor projects that reduce automobile travel. These policies are more suited to the advancement of transit projects where OCTA has more flexibility in defining the scale the scope of the projects. However, new state policies are not well suited for conventional freeway projects.

**Regulatory Risks** – Current state planning and project approval policies place great emphasis on reducing travel by automobile and encourage project alternatives that promote short trips where possible, travel by transit, bicycling or walking, and use of zero-emission vehicles. These requirements will affect the project environmental review process. The majority of M2 freeway projects, where this risk would manifest itself, have obtained the necessary approvals, but if the approvals require a review or revision, these new requirements could impact delivery.

In order to be successful, OCTA needs to be aware and prepared to manage risks in several areas. A summary table of the risks, explanations, and suggested management actions are identified on the following pages and are tracked and reported in the M2 Quarterly Progress Reports presented to the Board, following each fiscal year quarter.

Delivery Risk		Explanation	Planned Action
	<b>On Track</b>		<b>One to Watch</b>
<b>Financial</b>			
1	The 2020 M2 revenue forecast is \$11.6 billion, which is a \$1.8 billion (13 percent) decrease from the 2019 M2 revenue forecast due to the COVID-19 pandemic. If sales tax revenue continues to be lower than projections, this will further challenge delivery	The COVID-19 pandemic has introduced additional risk to the M2 program sales tax revenue. The latest \$11.6 billion revenue forecast represents the lowest forecast since M2 inception.	In December 2020, staff presented three options to address the significant decrease in the M2 revenue forecast for Board discussion and feedback. The Board directed staff to pursue a financially prudent course of action with a proactive stance on project delivery while remaining flexible given the fluidity of current events. The 2020 update of the Next 10 Plan incorporates Board direction and confirms that the M2 program remains deliverable as promised.
2	Inability to scale the Freeway Program to available revenue and still deliver the M2 commitments.	The Freeway Program includes set project scopes leaving limited flexibility in what is delivered.	OCTA will work closely with California Department of Transportation (Caltrans) to apply value engineering strategies on projects to manage costs.

Delivery Risk		Explanation	Planned Action
3	Schedule and scope changes on capital projects that impact delivery and project costs.	Changes as a result of updated highway standards or issues identified in the field regularly impact scope, schedule, and costs.	OCTA will work closely with Caltrans and project contractors to limit changes in scope and schedule to a minimum.
4	Sustain Metrolink train service as an attractive alternative to driving in Orange County within the limits of available revenue.	Operational cost of Metrolink service continues to grow as the system ages, track-sharing arrangements with Burlington Northern Santa Fe Railway (BNSF) are revised, and new air quality requirements are implemented. COVID-19 has introduced new risks as ridership and revenue has been greatly impacted in Orange County.	In September 2020, Metrolink adopted a Recovery Plan Framework to ensure the safety of passengers and employees and restore service in a post-COVID-19 environment. Metrolink received \$64.6 million in one-time federal funds through the Coronavirus Aid, Relief and Economic Security Act, which alleviates some concerns in the short-term. OCTA will continue to work closely with Metrolink and member agencies to ensure cost increases are minimized, while continuing to seek external revenue.
5	Potential for an environment of increasing cost as M2 capital projects are readied for construction.	The fall 2020 Next 10 Plan Market Conditions Forecast and Risk Analysis reflects a cooling of the prior increasing cost environment in 2021 and 2022, but a return to a normal inflationary increase in 2023. The COVID-19 pandemic impacts may cause this to change during the Next 10 Plan delivery years.	The Market Conditions Forecast and Risk Analysis report is updated biannually and provides a three year look ahead. OCTA will continue to monitor bid results and market conditions affecting project costs.
6	Reduced external funding opportunities for the M2 freeway program.	State and federal priorities continue to shift and favor projects that reduce automobile travel, which limits future external funding opportunities for the M2 freeway projects.	Current external funding commitments are assumed in the M2 cash flow for the 2020 Next 10 Plan, but prospects of future revenues for highway projects is low.

Delivery Risk	Explanation	Planned Action
<b>Resource</b>		
7	Substantial work underway in the region has resulted in significant demand for professional and skilled labor which can impact delivery given the volume of the M2 capital program.	The economic impacts of COVID-19 and its effects on unemployment may change the availability of key talent. If shortages continue, project delivery costs could rise but if additional labor resources are available it may temper costs and reduce delivery risk. OCTA will monitor impacts of COVID-19 on the labor market as well as contractor reported COVID-19 cases. Expert and timely coordination between OCTA and Caltrans is imperative to manage this risk. Staff is currently working with Caltrans to ensure resource needs are met.
8	New operational responsibilities with the OC Streetcar.	With the implementation of the OC Streetcar service, OCTA will be increasing its overall role in operations. OCTA holds a successful track record in operating various transportation systems including both a fixed- and demand-based bus network. To ensure success of the OC Streetcar, OCTA hired a streetcar operations manager with proven start-up experience to oversee start-up and daily operations. A contractor with extensive experience in operations of rail systems was selected to handle the startup and revenue operation phases. Additionally, in September 2020, OCTA initiated a project to review the organizational structure of the Operations Division.
<b>Regulatory</b>		
9	Changing federal and state directives could affect M2 freeway project approvals.	Current state planning and project approval policies place great emphasis on reducing travel by automobile and encourage project alternatives that promote short trips where possible, travel by transit, bicycling or walking, and use of zero-emission vehicles. These requirements will affect the project environmental review process. The majority of M2 freeway projects, where this risk would manifest itself, have obtained the necessary approvals. If the approvals require a review or revision, these new requirements could impact delivery.

## Guiding Principles

During the development of the EAP, guiding principles were established that set direction for staff on establishing priorities for freeway project acceleration. These guiding principles continue to instruct us today and were used to identify projects to recommend moving from the environmentally cleared/shelf-ready list to early funding through construction.

- Project Readiness
- Congestion Relief and Demand
- External Funding Availability
- Public Opinion and Support
- Project Sequencing and Connectivity
- Project Duration

## Updated Next 10 Plan Deliverables

Significant M2 Program accomplishments and progress has been made since 2007. The updated Next 10 Plan is based on ten deliverables intended to provide guidance on program and project delivery during the ten-year period from 2021 through 2030.

### Freeways

#### 1. Deliver 14 freeway improvement projects through construction (Projects A-M).

##### Status:

The M2 Freeway Program is currently made up of 30 projects or project segments (projects). As of December 2020, 12 of the 30 total projects have been completed. Deliverable 1 includes 14 of the 18 remaining projects to be delivered (or underway) within the Next 10 Plan timeframe. See Appendix for a table of the completed projects.

In Construction		Construction Complete	Cost
1. Project A	Interstate 5 (I-5) between SR-55 and SR-57	2021	\$39.7
2. Project C, D	I-5 between State Route 73 (SR-73) and Oso Parkway/Avery Parkway Interchange	2025	\$195.8
3. Project C, D	I-5 between Oso Parkway and Alicia Parkway/La Paz Interchange	2023	\$203.1
4. Project C	I-5 between Alicia Parkway and El Toro Road	2024	\$165.9
Project C, D	I-5, SR-73 to El Toro Road Landscaping	2026	\$12.4
5. Project K	Interstate 405 (I-405) between SR-73 and Interstate 605 (I-605)	2024	\$1,560.2
In Design		Construction Complete	Cost
6. Project F	SR-55 between I-405 and I-5	2026	\$503.2
7. Project I	SR-91 between SR-55 and Lakeview Avenue	2027	\$101.0

In Design		Construction Complete	Cost
8. Project I	SR-91 between La Palma Avenue and SR-55	2028	\$208.5
9. Project I	SR-91 between Acacia Street and La Palma Avenue	2028	\$116.2
10. Project M	I-605 Katella Avenue Interchange	2025	\$29.0
In Environmental		Construction Complete	Cost
11. Project B	I-5 between I-405 and Yale Avenue	2029	\$230.5
12. Project B	I-5 between Yale Avenue and SR-55	2028	\$200.4
13. Project F	SR-55 between I-5 and SR-91	2029	\$131.3
14. Project G	SR-57 Northbound from Orangewood Avenue to Katella Avenue	2026	\$71.8
Deliverable 1 Total			<b>\$3,769.0</b>

## 2. Prepare remaining freeway improvement projects for delivery (Projects A-M).

**Status:** The four remaining projects (of the 30 total) are environmentally cleared or on track to be cleared by 2030, making them shelf-ready for future advancement. These projects will continue to be reevaluated for earlier delivery as the Next 10 Plan is reviewed annually.

Remaining Projects		Environmentally Clear Shelf-Ready	Cost
1. Project D	I-5 El Toro Road Interchange	2021	\$120.5 <sup>1</sup>
2. Project G	SR-57 Northbound from Lambert Road to Tonner Canyon Road	2024	\$212.3 <sup>1</sup>
3. Project J	SR-91 between SR-241 and Interstate 15 (I-15)	2030	\$300.0 <sup>1</sup>
4. Project L	I-405 between I-5 and SR-55	2018	\$262.4
Remaining M2 Freeway Projects Total			<b>\$895.2<sup>2</sup></b>

These four projects listed below have specific reasons related to the application of the guiding principles that require additional time prior to these projects being recommended for advancement which are described below.

- Project D – I-5 El Toro Road Interchange is in the environmental phase and has faced challenges determining a build alternative that has local support and consensus with the three stakeholder cities (cities of Laguna Hills, Laguna Woods and Lake Forest).

<sup>1</sup> These cost estimates are preliminary and will be updated once the project alternative is selected at the completion of environmental clearance.

<sup>2</sup> The total will be revised once the three remaining projects (Project D, G, and J) complete environmental clearance and have a selected project alternative.



Using the guiding principles – Readiness and Public Support, this project needs additional time before it moves forward. Built into M2 was a promise that projects would be delivered in cooperation with local agencies. The three stakeholder cities have been asked to work together to come to consensus on a mutually acceptable and viable alternative at which time the project will be ready to be advanced. A consultant was retained in September 2020 by OCTA to provide further assessment of the build alternatives to help facilitate reaching an agreement. Results of the assessment will be presented to the Board and the cities in early 2021.

- Project G – SR-57 Northbound Lambert Road to Tonner Canyon Road is scheduled to begin the environmental phase within the Next 10 Plan timeframe. Through the SB 1 (Chapter 5, Statutes of 2017) Trade Corridor Enhancement Program, an initial phase for interchange improvements at the Lambert Road interchange is currently underway and is anticipated to be completed in early 2022. The mainline project could be a strong candidate for additional trade corridor funding and will require coordination to address connectivity with Los Angeles County. Reviewing the guiding principles – Readiness, External Funding and Project Sequencing and Connectivity, a decision for moving this project into design following environmental clearance will be annually reviewed during the Next 10 Plan update or brought to the Board as a separate item.
- Project J – SR-91 between SR-241 and I-15 is part of a bigger package of improvements underway between OCTA and the Riverside County Transportation Commission (RCTC) with a planned sequencing of project improvements in the 91 Corridor jointly agreed to by both OCTA and RCTC's Board. RCTC, with OCTA's support, is advancing the westbound portion of this project (between SR-241 and Green River Road). Construction on this project began in November 2020 and is anticipated to be completed late 2021. The eastbound lane project has engineering challenges due to project area topography (Santa Ana Canyon) and natural constraints (Santa Ana River) and requires an engineering feasibility assessment. Reviewing the guiding principles – Readiness and Project Sequencing and Connectivity, this project will move forward following the engineering feasibility study which is anticipated to be completed in mid-2021.
- Project L – I-405 between I-5 and SR-55 is a parallel facility to the two Project B segments on I-5 listed above. Only one project can move forward at a time due to construction on both creating excessive inconvenience to the traveling public. Project B was determined to be a higher priority project than Project L at this time, based on the guiding principles Project Sequencing and Connectivity and Project Congestion Relief and Demand. Congestion levels on the I-5 are higher than in the Project L, I-405 improvement area. Additionally, a significant Caltrans safety project is scheduled to take place within the Project L project limits and will require additional coordination.

### **Streets and Roads**

- 3. Provide annual competitive funding opportunities for local jurisdictions to address bottlenecks and gaps in the street system, synchronize signals (Project O and P) and continue flexible funding to local jurisdictions to preserve the quality of streets or for use on other transportation needs, as appropriate (Project Q).**

**Status:** As of December 2020, OCTA has awarded approximately \$426.4 million in competitive funding through the Regional Capacity Program (RCP) (Project O) and Regional Traffic Signal Synchronization Program (RTSSP) (Project P) through annual calls for projects (call). Additionally, \$475.6 million in Local Fair Share (LFS) (Project Q) funds have been distributed to local jurisdictions.

### **Transit**

- 4. Maintain Metrolink service and complete two rail station improvements (Project R).**

**Status:** In October 2019, three weekday intracounty round trips operating between Laguna Niguel/Mission Viejo and Fullerton were replaced with two round trips between Laguna Niguel/Mission Viejo (extended from Fullerton) into Los Angeles. Additional service changes were scheduled to be implemented in April 2020, however, due to COVID-19, they have been postponed until full service is reinstated.

In March 2020, all Metrolink services were impacted by the statewide enforcement of stay-at-home orders that resulted from the COVID-19 pandemic. Metrolink implemented temporary service reductions in March and November 2020 due to the decline in ridership. The three lines serving Orange County (Orange County, Inland Empire-Orange County, and the 91/Perris Valley lines) now operate 41 trains from the 54 daily trains operated prior to COVID-19. OCTA will continue to actively engage with Metrolink and other member agencies and monitor ridership levels and the corresponding financial impacts to M2.

Within this program, funding is provided for rail corridor and station improvements to accommodate increased passenger train service - including station upgrades, parking expansions, and safety enhancements. Two station improvement projects to be completed during the Next 10 Plan timeframe have completed design and are ready to begin construction. The Anaheim Canyon Metrolink Station improvements project was advertised for construction in October 2020 and construction is anticipated to begin in early 2021. The Placentia Metrolink Station project is ready for construction; however, it is contingent on a BNSF construction and maintenance agreement to be in place before the project is advertised.

In Design		Anticipated Construction Complete
1.	Anaheim Canyon Metrolink Station	2022
2.	Placentia Metrolink Station	2023

Outside of the Next 10 Plan but important to Metrolink operations is an undertaking by Metrolink of a major systemwide rehabilitation program that, in addition to safety, will help improve system reliability and performance for commuters. This multi-year program requires funding over and above ongoing maintenance and operation costs. Analysis to date indicates that Orange County's share is manageable within the M2 funding limits primarily as a result of past and present proactive efforts of OCTA.

**5. Complete construction, secure vehicles, begin operating the OC Streetcar, and work with local jurisdictions to consider recommendations from planning studies to guide development of future high-quality transit connections (Project S).**

**Status:** With strong Federal Transit Administration (FTA) support for the project, a full funding grant agreement (FFGA) was executed in November 2018 providing OCTA with \$149 million in federal funding to support the project. The OC Streetcar construction contract was executed and a notice to proceed was issued on March 4, 2019 as well as the vehicle manufacturing contract. Construction activities are underway, including coordination with third parties on utility relocation, award of the operations and maintenance contract and continued coordination with the FTA. Construction is anticipated to be complete with operations beginning in 2022.

**6. Support expanded mobility choices for seniors and persons with disabilities (Project U).**

**Status:** Project U is comprised of three programs: the Senior Mobility Program (SMP), the Senior Non-Emergency Medical Transportation (SNEMT) Program, and the Fare Stabilization Program. Since 2011, these three programs have provided \$84.6 million<sup>3</sup>. The SMP provides funding for local transportation services to participating cities in Orange County. Participating agencies design and implement transit service that best fits the needs of older adults (age 60 and above) in their communities. The SNEMT Program provides funding to the County of Orange Office on Aging for senior (60 and above) transportation to and from medical appointments, dentists, therapies, exercise programs, testing and other health related trips at a low cost to the rider than would otherwise be available. The Fare Stabilization program provides stable discounted fares for seniors and persons with disabilities by lowering the cost of riding transit.

**7. Work with local agencies to maintain successful community circulator projects and potentially provide grant opportunities for expanded or new local transit services (Project V).**

**Status:** Since inception, OCTA has approved 35 projects and ten planning studies totaling approximately \$52 million through four calls. The most recent Project V call was

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<sup>3</sup>Only includes disbursed funds. On October 12, 2020, the Board approved a temporary exception to the SMP guidelines which allows for OCTA to hold allocations in reserve for agencies with suspended services due to the COVID-19 pandemic. The funds will be held until the State lifts the State of Emergency or the agency resumes transportation services, whichever occurs first.

programmed by the OCTA Board on April 13, 2020. OCTA receives ridership reports from local agencies on a regular basis to monitor the success of awarded services against performance measures adopted by the Board. Currently, two services are active, and all other remaining active services have been suspended (or were not initiated) as a result of the COVID-19 pandemic. Staff continues to work with local jurisdictions through letters of interest requests, workshops, Comprehensive Transportation Funding Program Guidelines revisions, calls, and cooperative agreement amendments to fine-tune this program and facilitate successful project implementation, especially in light of the COVID-19 pandemic.

**8. Continue to improve the top 100 busiest transit stops to enhance the customer experience (Project W).**

**Status:** Through three calls, the Board has approved \$3.1 million to improve 114 city-initiated improvement projects at the busiest OCTA transit stops. The program is designed to ease transfers between bus lines and provide passenger amenities such as installation of bus benches or seating, shelters, improved lighting, and other passenger related amenities. To date, 43 improvements funded through the first call have been completed and an additional 71 improvements were funded for implementation through the second and third round of funding.

**Environmental**

**9. Ensure the ongoing preservation of purchased open space, which provides comprehensive mitigation of the environmental impacts of freeway improvements and higher-value environmental benefits in exchange for streamlined project approvals (Projects A-M).**

**Status:** In 2017, OCTA received biological resource permits after completing a state and federal Natural Community Conservation Plan/Habitat Conservation Plan (Conservation Plan) for the Environmental Mitigation Program (EMP), allowing streamlined project approvals for the M2 freeway improvement projects. The Conservation Plan also includes a streamlined process for coordination for streambed alternation agreements. In January 2018, OCTA secured programmatic permits and assurances for federal and state clean water permitting requirements. Receipt of these permits represents the culmination of years of collaboration and support by the Board, environmental community, and regulatory agencies.

To ensure ongoing preservation of the open space, an endowment was established to pay for the long-term management of the conservation properties (Preserves). OCTA deposits approximately \$2.9 million annually; these deposits are expected to be made over a ten to 12 year period or until the fund totals approximately \$46.2 million. In July 2020, OCTA made the fifth deposit. As of December 31, 2020, the endowment balance is \$17.7 million, which is performing above original projections due to higher investment earnings and lower fees.

**10. Work with the Environmental Cleanup Allocation Committee (ECAC) to develop the next tiers of water quality programs to prevent the flow of trash, pollutants and debris into waterways from transportation facilities. In addition, focus on improving water quality on a regional scale that encourages partnerships among the local agencies as part of the Environmental Cleanup Program (ECP) (Project X).**

**Status:** In May 2010, the Board approved a two-tier approach to fund Project X. Tier 1 consists of funding equipment purchases and upgrades to existing catch basins and related best management practices, such as screens and other low-flow diversion devices. Tier 2 consists of funding regional, potentially multi-jurisdictional, and capital-intensive projects. Since 2011, the Board has approved \$27 million in funding for 189 Tier 1 projects through ten calls and \$27.9 million for 22 Tier 2 projects through two calls.

### **Oversight and Safeguards**

The 2020 Next 10 Plan is taking place with the full oversight and regular reporting promised to the voters. Regular progress reports on implementing the Next 10 Plan are included in the M2 Quarterly Progress Reports that are prepared for the Board. These reports are included on the OCTA website, as well as other means, to ensure accessibility and transparency of the information. Contact information for the OCTA staff member responsible for each program or project is included.

Additionally, as specified in the M2 Ordinance No. 3 (M2 Ordinance), Section 10, there will be three performance assessments conducted during the Next 10 Plan time period. Performance assessments are to be conducted at least once every three years to evaluate the efficiency, effectiveness, economy, and program results of OCTA in satisfying the provisions and requirements of the M2 Plan and M2 Ordinance. These assessments will take place during 2021, 2024, and 2027. Procurement efforts for the next performance assessment will begin in early 2021 to have a consultant contract executed by July 1, 2021.

Also included in the M2 Ordinance, Section 11, is a ten-year comprehensive review of M2 programs and projects, which will be initiated during the Next 10 Plan time period. Due to the early initiation of project development activities prior to the start-up of revenue collection in 2011, the first review was completed in FY 2014-15. A second review is planned to take place in FY 2024-25 (or sooner if warranted) and will determine the basis for setting the direction of future refinements to the M2 Plan. The ten-year review includes a comprehensive review of all projects and programs implemented under the M2 Plan to evaluate the performance of the overall program and may result in revisions to further improve performance.

### **Sustainable Communities Strategy**

It is important to note that M2 also supports and enhances the ability of OCTA to support the regional Sustainable Communities Strategy in Orange County. M2 projects and programs are part of a larger suite of transportation improvements included in the 30-year M2 Plan.

More than 50 percent of M2 funds are intended to fulfill transit, system optimization, enhanced environmental elements and infrastructure preservation goals. In addition, the funding eligibility criteria encourages local agencies to consider accommodations for transit and non-motorized transportation.

M2 was publicly reviewed through a Program Environmental Impact Report (EIR) prior to voters approving the ballot measure in November 2006. Since 2008, the M2 Program has been included in the Regional Transportation Plans, Sustainable Communities Strategies, and the associated Program EIR prepared by the Southern California Association of Governments.

In addition to funding freeway improvements, the M2 Program dedicates funding for many transit and local street improvement projects. These include improvements such as:

- New transit connections between major Orange County activity areas that reduce the need for short automobile trips;
- Enhanced convenience and reliability for bus services and Metrolink commuter rail to encourage transit as a dependable commute option;
- Local funding for development of multimodal corridors and roadway preservation that improves the quality of mobility for all users; and
- Signal synchronization on 750 miles of roadways throughout Orange County to reduce congestion and tailpipe emissions.

The Freeway EMP has preserved 1,300 acres of wild lands that will be converted to the Preserves to enhance connectivity and wildlife movement between existing conservation areas - such as the Cleveland National Forest, the Chino Hills State Park, and the Irvine Ranch Conservancy lands - and to coastal areas. Furthermore, the program also provides critical habitat for endangered or listed species. Additionally, since M2 inception, the ECP has funded over 200 projects totaling over \$55 million to treat storm water runoff and help keep waterways and beaches clean in Orange County. The aforementioned transit, local streets, and environmental programs collectively contribute to and enhance the quality of life, as well as provide a sustainable future, and an efficient transportation system that benefits the region.

Brief summaries of the specific programs are listed below.

- ✓ Projects A through N – Freeway improvements and Freeway Service Patrol (FSP) to provide emission reductions through congestion relief.
- ✓ Projects O and P – Signal synchronization and street improvements that provide emission reductions through congestion relief and flexibility to accommodate bike and pedestrian project elements as appropriate.
- ✓ Project Q – Local funding for city-selected transportation projects that provide for preservation of the streets and roads system and includes bike, pedestrian, water quality, and transit enhancements as eligible expenditures.

- ✓ Project R – Expanded Metrolink train capacity including improvements to stations and parking to improve transit reliability and convenience and reduce reliance on highways while also supporting potential transit-oriented development.
- ✓ Project S – Transit extensions to improve access between Metrolink stations and residential/employment centers, and provide an alternative to driving.
- ✓ Project T – Station improvements to connect to planned future High-Speed Rail services.
- ✓ Project U – Sustain mobility choices for seniors and persons with disabilities and provides an alternative to driving.
- ✓ Project V – Community-based circulators to complement regional transit services with local communities and provides an alternative to driving.
- ✓ Project W – Transit stop improvements to support transfers between major bus lines, and support the implementation of mobile ticketing to ensure ease of fare purchase and convenience for bus passengers.
- ✓ Project X – Water quality improvement programs/projects to meet federal Clean Water Act standards for urban runoff, and augment required mitigations.
- ✓ Freeway Mitigation Program – Natural resource protection strategy to provide for more comprehensive mitigation of environmental impacts from M2 freeway improvements.

#### **Updated Next 10 Plan Funding Assumptions**

Funding assumptions are included in the 2020 Next 10 Plan. The revenue assumptions incorporate the latest 2020 M2 sales tax revenue forecast of \$11.6 billion and prior commitments in programmed local, state and federal external revenues.

Projected revenues and expenses are merged into a high-level cash flow model. To support project delivery schedules in the Freeway Program, bond assumptions are also included. With the decrease in the revenue forecast as well as refined project costs, bond assumptions remain at one planned issuance in 2023, however, the amount anticipated has nearly doubled. Additional bonding capacity is available, as OCTA's debt coverage ratios are well above the allowable amount of 1.3x. The minimum forecasted debt coverage ratio during the Next 10 Plan timeframe is 3.6x. This offers significant financial protection against unforeseen economic changes related to project delivery. The appendix on page 106 includes a more detailed discussion on assumed revenues, costs, and debt service.

For the 2020 Next 10 Plan review and update, forecasted revenues and costs through 2041 were tested. This effort was conducted to ensure the complete M2 Program could be delivered consistent with commitments provided to the voters as part of M2 approval in November 2006. Revenues are expected to fluctuate over time. The M2 expenditure plan includes programmatic items which adjust according to available revenues. However, the freeway portion defines specific project scopes which cannot be easily adjusted to revenue fluctuations.

Funding for the freeway mode assumes \$8.3 billion in total revenue, with costs for the same period totaling \$8.3 billion. To date, OCTA has been very successful in capturing external funding to offset the reduction in sales tax revenue. The long-term M2 freeway plan relies on the total receipt of approximately \$1.6 billion in state and federal revenues (this is inclusive of the \$140 million of SB 1 funds awarded in December 2020). Additionally, the program includes \$692 million in net excess 91 Express Lanes revenue and \$1.07 billion in bond proceeds.

As a result of the lower forecasted sales tax and interest revenue, the freeway program net sales tax revenue through 2041 decreased by approximately \$747 million. In addition, each project in the freeway program was reviewed and cost estimates updated. With the majority of the projects now either nearing completion of the environmental phase or in design, project cost estimates have a higher level of engineering and are therefore better defined. Project cost refinements resulted in a net increase of approximately \$244 million. With sales tax revenue down and freeway project costs up, this resulted in an increase to the previously assumed bonding issuance in 2023 to maintain project delivery schedules. To make this possible, economic uncertainties were reduced by approximately half of what was assumed in the 2019 Next 10 Plan.

The funding assumptions in the streets and roads mode assume \$4.3 billion in total revenue, with costs for the same period totaling \$4.3 billion. The projects within the Streets and Roads Program are scaled to available revenue and are cash flowed on a pay-as-you-go basis. The Streets and Roads Program relies on the total receipt of \$600 million in external revenues (state, federal, and local) primarily for the OC Bridges grade separation projects. More detailed program assumptions for the Streets and Roads Program can be found in the Appendix on page 109.

For the transit mode, \$3.3 billion in total revenue is assumed with costs for the same period totaling \$3.3 billion. The majority of projects within the Transit Program are scaled to available revenue with the exception of Project U's Fare Stabilization Program. The M2 Ordinance specifically requires that the Fare Stabilization Program subsidize fares for seniors and persons with disabilities to the extent of maintaining the reduced fare rate effective on July 24, 2006 through 2041. While this program is not scalable, it remains solvent due to OCTA's proactive amendment to the M2 Ordinance. The remaining transit mode programs are assumed on a pay-as-you-go basis. The funding for the transit mode assumes the total receipt of \$498.6 million in local, state and federal revenues. This number is inclusive of \$148.96 million in Federal New Starts and \$25.52 million in State Cap-and-Trade revenues to partially fund the OC Streetcar project. More detailed program assumptions for the Transit Program can be found in the Appendix on page 110.

The ECP assumes \$228 million in total revenue, with costs for the same period totaling \$227 million. The projects within the ECP are scaled to available revenue and are reflected in the cash flow on a pay-as-you-go basis. More detailed program assumptions for the ECP can be found in the Appendix on page 110.



With careful management of the projects and use of financial resources, the full scope of the M2 Program through 2041 can be delivered as promised.

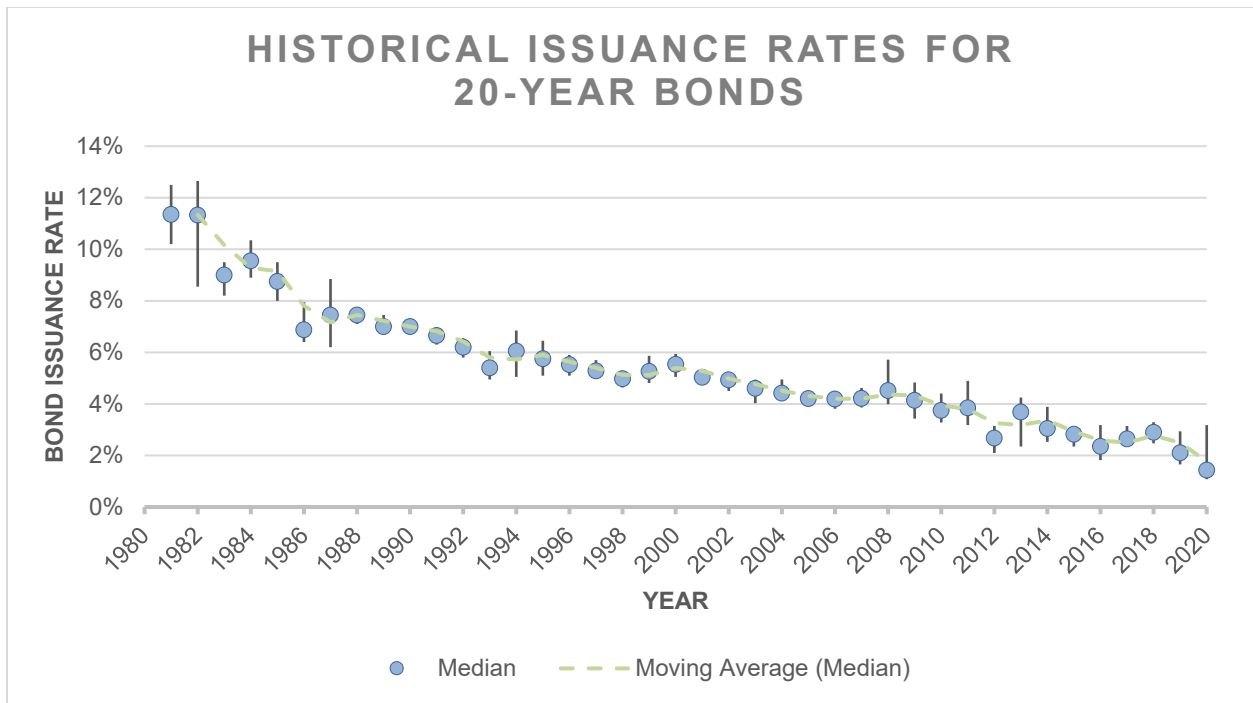
## **Funding and Financing**

The Board's vision in developing the EAP created a great opportunity for the M2 Program. While the economy took a significant downturn due to the 2008 Great Recession, OCTA advanced projects years before revenue became available. Projects were accelerated, making them shelf-ready. This allowed OCTA to capture significant one-time external funding provided through State Proposition 1B and the American Recovery and Reinvestment Act. Using the revised forecasting methodology implemented in March 2016, the 2020 M2 sales tax revenue forecast is \$11.6 billion.

When it comes to the bidding environment, OCTA significantly benefited during the recession by capitalizing on a low-cost environment with early project development and acceleration. When the M2020 Plan was adopted in late 2012, staff reported that freeway construction bids were consistently coming in between ten to 20 percent below engineers' estimates. Since that time, construction bids have slowly risen to meet and in some cases exceed the engineers' estimates. However, the most recent bid for Project C, segment 3, on the I-5 between Alicia Parkway to El Toro Road on June 30, 2020 came in below the engineers estimate, indicating the possibility of a more predictable construction market.

In the 2019 update of the Next 10 Plan, there was one bond issuance anticipated in 2023. This year's update maintains one bond issuance in 2023; however, the amount has increased from approximately \$300 million to \$575 million. This will allow for OCTA to maintain progress on near-term projects and readies additional projects for delivery. The update also continues to maintain prudent annual ending balances and an economic uncertainties allowance, which provides continued financial stability in the event of additional financial fluctuations.

Pay-as-you-go project funding is identified in the M2 Ordinance as the preferred method of financing, while bond financing is an option that is within the purview of the Board. While the current cost of debt remains low and continues to be attractive, only one debt issuance is planned through 2041 to deliver the remaining program of projects promised to the voters. Current 20-year bond rates have declined to 1.17 percent. Although short-term rates have fallen as well, long-term rates remain near all-time lows of 1.08 percent, thus maintaining a relatively "flat" yield curve, allowing OCTA to take advantage of attractive mid- and long-term rates if and when needed. See the graph below showing historical issuance rates of 20-year bonds.



OCTA has a strong track record of successfully delivering projects by utilizing bond financing, as seen in M1, as well as M2, under the EAP and M2020 Plan. The updated Next 10 Plan anticipates bond financing for the Freeway Program as a means to deliver the freeway projects early bringing relief to commuters sooner.

## Future Outlook

As noted in the Risks section starting on page 5, major capital work is underway in the southern California region that may impact OCTA's ability to secure resources needed for future project and program delivery. Competition for available resources for capital projects has increased with the major capital work currently underway in Los Angeles, Riverside, and San Bernardino counties. For future projects going forward, engineers, right-of-way (ROW) experts, skilled labor, and materials will be in higher demand.

In September 2017, the Board was presented with a Market Conditions Forecast and Risk Analysis report conducted by economists Dr. Wallace Walrod and Dr. Marlon Boarnet through a contract with the Orange County Business Council (OCBC). The consultant team's analysis identified strong potential for OCTA to experience an increasing-cost environment in the near term. The Board directed staff to continue to work with the consultant team to monitor and track key early warning indicators and provide OCTA information on changes to the risk factors and potential cost impacts. The consultant team analyzed annual trends in material costs, labor costs, and general economic conditions to determine a range of potential cost increases.

In November 2020, the consultant team provided an updated forecast to the Board for 2021 through 2023. The consultant team tracked relevant market data and indicators, performed analytics, and incorporated this analysis to provide OCTA with a range of potential cost fluctuations through the use of an Infrastructure Construction Cost Index (ICCI). The ICCI incorporates a detailed trend analysis of building permits, unemployment rates, localized labor costs, material costs and general economic conditions.

For 2021 and 2022, the consultant team forecasted a low inflation cost environment ranging negative two percent to one percent, followed by a more normal inflation cost environment in 2023. The current range of negative two percent to one percent represents a tempering of market conditions and is primarily attributed to the COVID-19 pandemic. For example, a change from a low unemployment economy to that of a high unemployment economy has lowered the risk for higher labor costs. In addition, building permits in California have slowed down, and building material costs have stabilized.

OCBC Orange County Transportation ICCI Score, 2021-2023		
Year	Index Score	Range of Cost Fluctuation
2021	1	-2% to 1%
2022	1	-2% to 1%
2023	3	2% to 6%

As in prior forecasts and especially with COVID-19, the consultant team indicates that OCTA will also need to be aware and ready to respond to cost pressures that cannot be modeled. Examples of such forces include:

- Tariffs, and associated effects on cost of materials from the nation's changing trade policy;
- Regulatory requirements and changes that create additional hurdles during the bidding process; and
- Future potential economic shutdowns related to COVID-19 spread.

In order to mitigate cost pressures, OCTA's Project Controls Department monitors and adjusts project cost escalation assumptions according to market trends. Project Controls' cost estimating process uses historical information, as well as current trends in the market, and follows a consistent and defined process. Looking back at the last 20 years, OCTA's cost estimates have included a three percent escalation, which, on average during this timeframe, provided the appropriate escalation to deliver projects successfully. Using 3.5 percent for construction escalation, as well as incorporating contingency based on the project type and complexity, is staff's best estimate using industry standards on cost estimating.

Additionally, to further protect against potential cost increases in our freeway capital program and conform to project controls' project estimating process, staff has identified significant bonding capacity that would be available at the Board's discretion if needed. This is intended to safeguard the M2 program and ensure that OCTA does not over commit delivery during this time of uncertainty.

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**2020**  
UPDATE

# NEXT 10

## DELIVERY PLAN

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### Freeway Program

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updated 12.31.20

**A** I-5 (SR-55 to SR-57)  
**B** I-5 (I-405 to SR-55)  
**C, D** I-5 (Avenida Pico to San Juan Creek Road)  
**C, D** I-5 (SR-73 to El Toro Road)  
**D** I-5/Ortega Highway Interchange Improvements  
**D** I-5/El Toro Road Interchange Improvements  
**E** SR-22 Access Improvements  
**F** SR-55 (I-405 to I-5)  
**F** SR-55 (I-5 to SR-91)  
**G** SR-57 NB (Orangewood Avenue to Katella Avenue)  
**G** SR-57 NB (Katella Avenue to Lincoln Avenue)  
**G** SR-57 NB (Orangethorpe Avenue to Lambert Road)  
**G** SR-57 NB (Lambert Road to County Line)

**H** SR-91 WB (I-5 to SR-57)  
**I** SR-91 (SR-57 to SR-55)  
**I** SR-91 WB (Tustin Avenue to SR-55)  
**J** SR-91 (SR-55 to SR-71)  
**J** SR-91 (SR-241 to I-15)\*  
**K** I-405 (SR-73 to I-605)  
**L** I-405 (I-5 to SR-55)

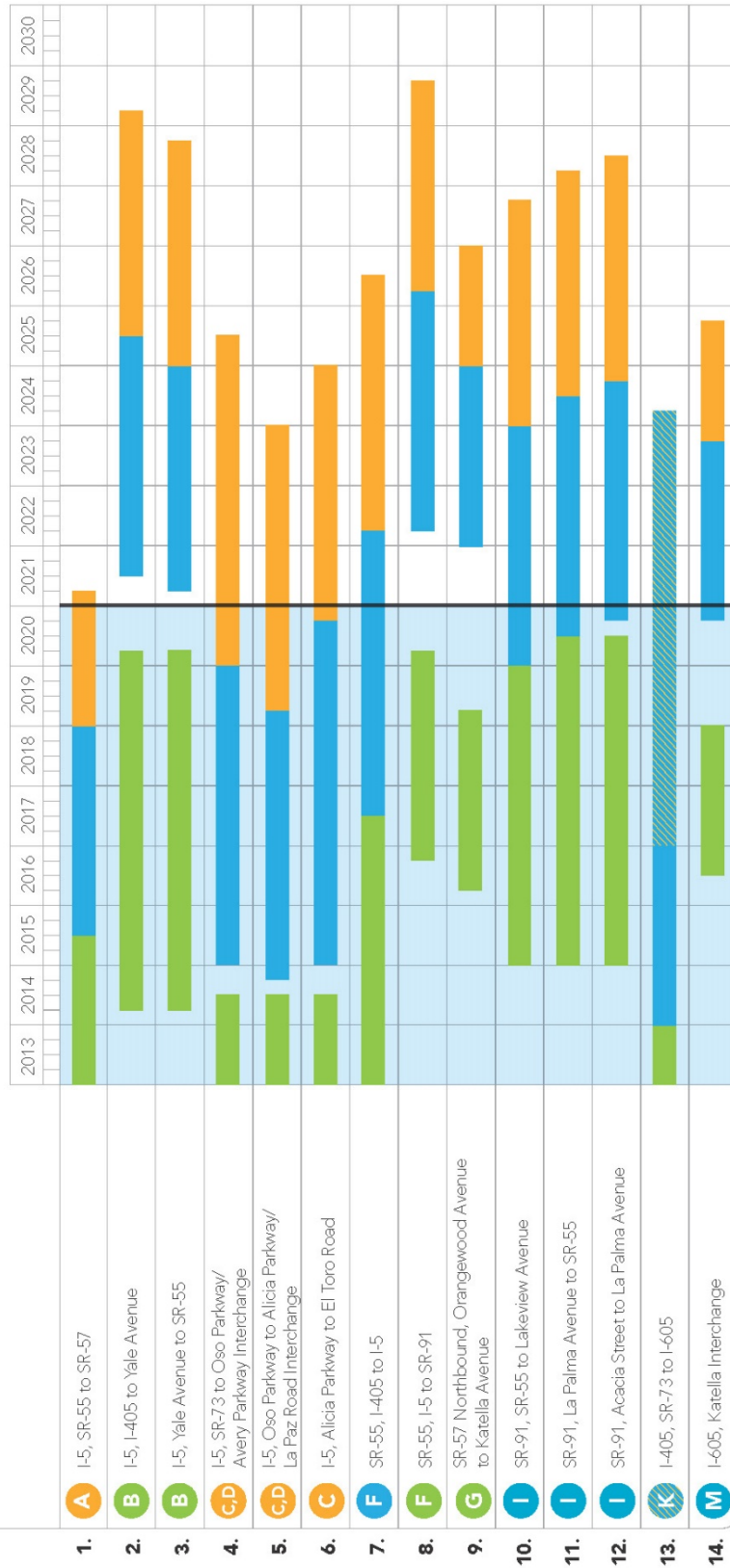
**M** I-605/Katella Avenue Interchange Improvements

\*Project environmentally reviewed as part of the Riverside County Transportation Commission's Corridor Improvement Project. Additional studies needed prior to construction.





OC Go Freeway Projects Through Construction

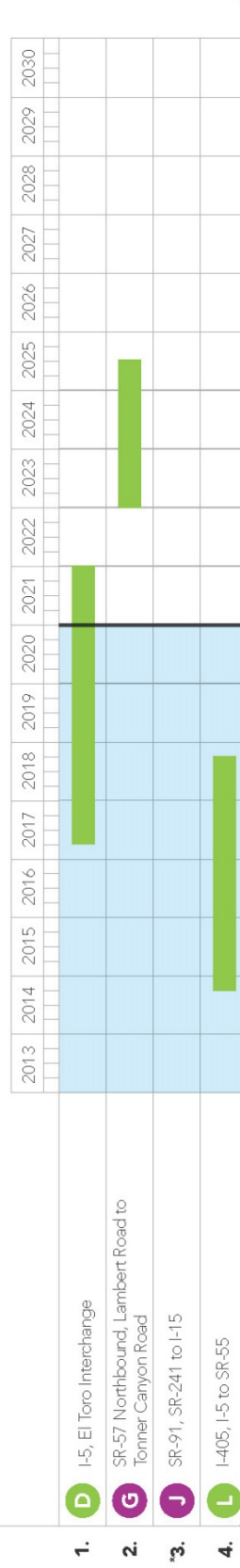


Please note that schedules are updated as of December 31, 2020. Shown schedules are subject to change.

2020 UPDATE  
**NEXT10**  
GO  
DELIVERY PLAN

Environmental Conceptual

OC Go Freeway Projects Through Environmental Phase/Shelf Ready



Schedule for I-5, El Toro Interchange is updated as of December 31, 2020. Projected and active project schedules are subject to change. The Next 10 Plan provides direction through 2030. Schedules and revenues will be reviewed annually. The Board will adopt an updated delivery plan to provide direction on further advancement as appropriate.

\*Project environmentally reviewed as part of the Riverside County Transportation Commission's Corridor Improvement Project. Additional studies needed prior to construction.

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# Freeway Program



## Overview:

The Freeway Program accounts for 43 percent of the M2 Program. Over the life of M2, approximately \$4.5 billion is expected to be generated in sales tax revenues for freeway Projects A-N (not including the five percent of net revenues apportioned to the EMP). Improving Orange County freeways is a major investment of the M2 Program.

To ensure delivery of the Freeway Program, the Next 10 Plan includes the following framework:

- Bring congestion relief.
- Deliver projects using the guiding principles.
- Work with Caltrans to seek cost effective measures on freeway projects through changes in scope and design parameters where possible.
- Tightly manage project scopes and schedule to reduce cost escalation risk.

## Next 10 Plan Deliverables:

When M2 originally passed, 13 freeway projects were highlighted in the M2 Transportation Investment Plan. Since then, these projects have been segmented into 30 projects or project segments. Of this amount, twelve have been completed as of December 2020. Significant progress of the freeway program is included in the Next 10 Plan deliverable goals through 2030:

1. Deliver construction of 14 freeway projects or project segments: six along I-5, one along I-405, two along SR-55, three along SR-91, one along SR-57, and one at the I-605 Interchange (Projects A, C, C/D, F, G, I, K, and M.). These projects along with the prior 12 will be complete or near complete.
2. Prepare the remaining four project segments for delivery. This includes one on I-405, SR-91, and SR-57; and one interchange project at I-5/EI Toro Road (Projects D, G, J and L).

## A. I-5 (SR-55 to SR-57)

### Description:

Project A reduced freeway congestion by adding a second high-occupancy vehicle (HOV) lane in both directions on I-5 between SR-55 and SR-57. The project was generally constructed within the existing ROW.

### Cost:

\$39.74 million (Year of Expenditure [YOE]).

### Status:

All lanes opened to traffic in August 2020. Construction is anticipated to be complete in January 2021.

### Present Day:

The current daily traffic volume on this segment of I-5 is about 380,000 vehicles and is severely congested. Traffic volumes are expected to increase nearly seven percent by 2035, bringing it up to 406,000 vehicles per day. The HOV lanes experience more congestion in the peak period than the

adjacent general purpose lanes, underscoring the need to add HOV capacity on this freeway segment.

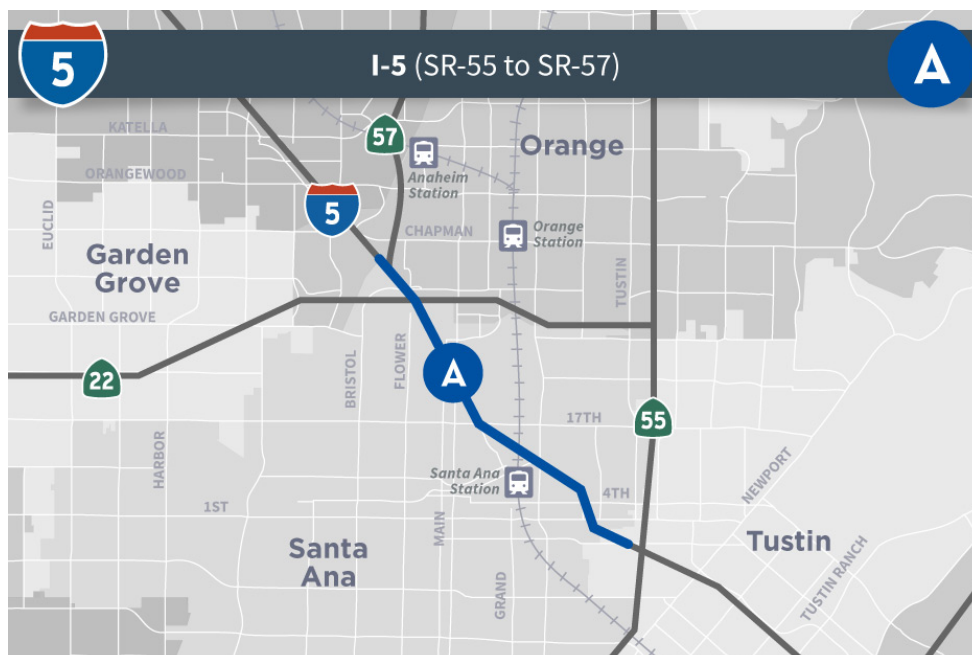
### Benefits:

This project increased the capacity of the HOV facility on I-5 in Santa Ana to meet traffic demands and eliminate bottlenecks. Improvements were needed to accommodate HOV traffic from both the SR-55/I-5 and SR-57/I-5 direct HOV connectors.

Originally considered under this project, the extension of the auxiliary lane from southbound I-5 to southbound SR-55 through the McFadden Avenue exit ramp on SR-55 to Edinger Avenue, was instead studied as part of the SR-55 Project F.

### External Funding:

The Board has approved \$36.19 million in federal funds to support this project.



## **A. I-5 (SR-55 to SR-57)**

### **Risks:**

No risk to project delivery as the project is substantially complete.

### **Related Projects:**

Projects B and F.

### **Other Involved Agencies:**

California Transportation Commission (CTC), Caltrans, City of Santa Ana, Federal Highways Administration (FHWA), and Southern California Regional Rail Authority.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)

## B. I-5 (I-405 to SR-55)

### Description:

Project B will increase I-5 freeway capacity and reduce congestion by constructing new northbound and southbound general purpose lanes and improving key interchanges in the area between SR-55 and State Route 133 (SR-133) (near the El Toro “Y”). This segment of I-5 is the major route serving activity areas in the cities of Irvine, Santa Ana, and Tustin, and north Orange County. The project will generally be constructed within the existing ROW. The project is divided into two segments as described below.

#### Segment 1:

This project will add one general purpose lane in each direction between I-405 and Yale Avenue (approximately 4.5 miles), improve interchanges, and add auxiliary lanes where needed to increase freeway capacity and improve traffic operations in the Irvine area.

#### Segment 2:

This project will add one general purpose lane in each direction between Yale Avenue and SR-55 (approximately 4.5 miles), improve interchanges, and add auxiliary lanes where needed to increase freeway capacity and improve traffic operations in Irvine and Tustin areas.

### Cost:

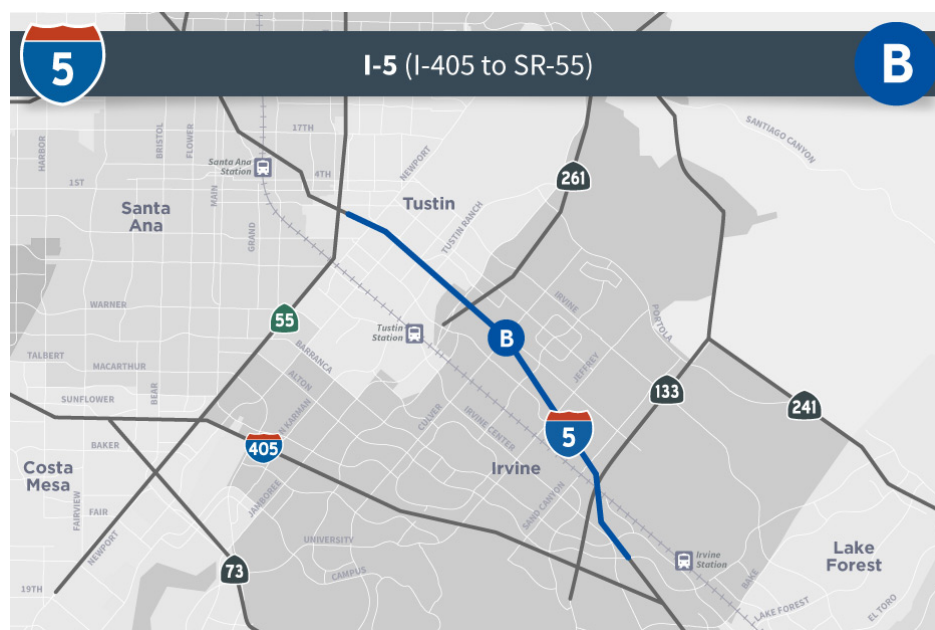
Segment 1: \$230.48 million (YOE).

Segment 2: \$200.44 million (YOE).

### Status:

The environmental phase for both segments was completed in January 2020.

Segment 1: The project was advertised for design services on December 14, 2020. Final design for this segment is anticipated to begin in fall 2021.



## **B. I-5 (I-405 to SR-55)**

Segment 2: The project was advertised for design services on June 22, 2020. A design consultant was selected by the Board on November 9, 2020. Final design for this segment is anticipated to begin in spring 2021.

### **Present Day:**

The current traffic volume on this segment of I-5 is about 358,000 vehicles per day and is expected to increase by nearly 16 percent by 2035, bringing it up to 416,000 vehicles per day.

### **Benefits:**

Project improvements would alleviate congestion and reduce delay.

### **External Funding:**

The Board has approved funding that supports this project including:

Segment 1: \$52.36 million in federal funds and \$140.13 million in state funds.

Segment 2: \$15.03 million in federal funds.

### **Risks:**

Overall time, scope, and costs risks are high with this project due to tight ROW and the need for design variations.

### **Related Projects:**

Projects A and F.

### **Other Involved Agencies:**

Caltrans, cities of Irvine and Tustin, and FHWA.

### **Assumptions:**

Cost based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)



## C. I-5 (SR-73 to El Toro Road includes Avery & La Paz Interchanges)

### Description:

Project C will add new lanes to I-5 from El Toro Road in the City of Lake Forest to the vicinity of SR-73 in the cities of Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest and Mission Viejo. Improvements include continuous HOV access completion and major improvements at the Avery Parkway and La Paz Road interchanges, as part of Project D. The project will generally be constructed within the existing ROW. This project is divided into three segments as described below.

### Segment 1:

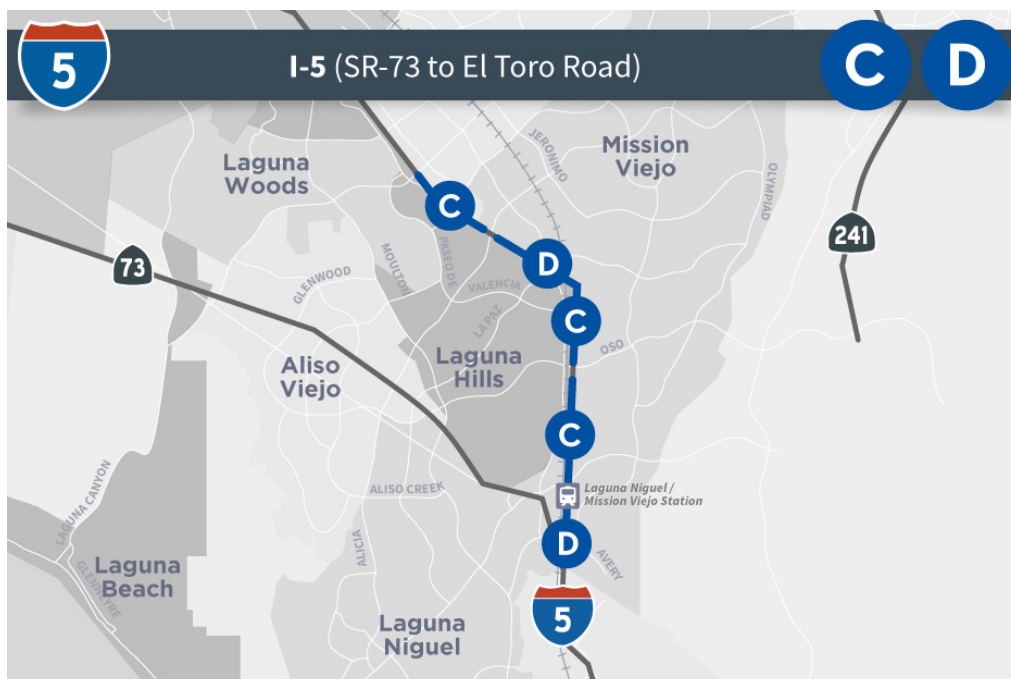
This project from SR-73 to Oso Parkway will add one general purpose lane in each direction between SR-73 and Oso Creek (approximately 2.2 miles), reconstruct Avery Parkway interchange, and add auxiliary lanes where needed to increase freeway capacity and reduce congestion in Laguna Hills, Laguna Niguel, and Mission Viejo areas.

### Segment 2:

This project from Oso Parkway to Alicia Parkway will add one general purpose lane in each direction between Oso Creek and Alicia Parkway (approximately 2.6 miles), reconstruct La Paz Road interchange, and add auxiliary lanes where needed to increase freeway capacity and reduce congestion in Laguna Hills and Mission Viejo areas.

### Segment 3:

This project from Alicia Parkway to El Toro Road will add one general purpose lane in the southbound direction between Alicia Parkway and El Toro Road (approximately 1.7 miles), continue the additional general purpose lane in the northbound direction through Alicia Parkway, extend the second HOV lane in both directions from El Toro Road to Alicia Parkway, and add auxiliary lanes where needed to increase freeway



## **C. I-5 (SR-73 to El Toro Road includes Avery & La Paz Interchanges)**

capacity and reduce congestion in Laguna Hills and Lake Forest areas.

### **Cost:**

Segment 1: \$195.80 million (YOE).

Segment 2: \$203.07 million (YOE).

Segment 3: \$165.86 million (YOE).

Landscaping for all three segments: \$12.37 million (YOE).

### **Status:**

Segment 1: Construction began in March 2020 and is scheduled to be complete and open to traffic in 2025.

Segment 2: Construction began in May 2019 and is scheduled to be complete and open to traffic in late 2023.

Segment 3: A construction contract was approved by Caltrans on October 13, 2020. Construction is anticipated to begin in January 2021 and is scheduled to be complete and open to traffic in 2024.

### **Present Day:**

The current traffic volume on I-5 near the El Toro “Y” is about 343,000 vehicles per day. This volume will increase in the future by 22 percent by 2035, bringing it up to 420,000 vehicles per day.

### **Benefits:**

This project will help alleviate congestion and reduce traffic delays. The second HOV extension for Segment 3 will enable more efficient operation of general purpose lanes and

increase capacity for future projected traffic volumes. Adding an additional general purpose lane in Segment 1 and 2 will increase capacity of the freeway to accommodate future projected traffic volumes. The I-5/La Paz Road and I-5/Avery Parkway interchange improvement projects called for in M2 Project D will reduce chokepoints and congestion, as well as accommodate future traffic demands on the local roads at each interchange.

### **External Funding:**

The Board has approved funding that supports this project including:

Segment 1: \$34.60 million in federal funds and \$121.81 million in state funds.

Segment 2: \$55.60 million in federal funds.

Segment 3: \$54.63 million in federal funds and \$9.39 million in state funds.

Additionally, \$6.00 million in state funds have been approved for landscape planting across all three segments.

### **Risks:**

Overall time, scope, and costs risks are medium with this project due to potential ROW impacts.

### **Related Projects:**

Project C (Avenida Pico to San Juan Creek Road) and Project D (El Toro Road Interchange).

## **C. I-5 (SR-73 to El Toro Road includes Avery & La Paz Interchanges)**

### **Other Involved Agencies:**

Caltrans, cities of Laguna Hills, Laguna Niguel, and Mission Viejo, CTC, FHWA, and Transportation Corridor Agencies.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)

## C. I-5 (Avenida Pico to San Juan Creek Road includes Pico Interchange)

### Description:

Project C extended the HOV lanes on I-5 from Avenida Pico to San Juan Creek Road in the cities of Dana Point, San Clemente, and San Juan Capistrano. Major interchange improvements were also included at Avenida Pico, as part of Project D. This project was generally constructed within the existing ROW and was divided into three segments as described below.

#### Segment 1:

This project from Avenida Pico to Avenida Vista Hermosa added new continuous-access HOV lanes in each direction between Avenida Vista Hermosa Overcrossing and Avenida Pico Undercrossing. The Avenida Pico Interchange was reconstructed to optimize traffic movements within the interchange and provided bicycle lanes in both directions of Avenida Pico.

#### Segment 2:

This project from Avenida Vista Hermosa to Pacific Coast Highway (PCH) added new continuous-access HOV lanes in each direction between Avenida Vista Hermosa Overcrossing and PCH Undercrossing. The project also reconstructed on- and off-ramps at Avenida Vista Hermosa and Camino de Estrella, and re-established existing auxiliary lanes. Avenida Vaquero Undercrossing was widened in both directions to accommodate the new HOV lanes.

#### Segment 3:

This project from PCH to San Juan Creek Road added new continuous-access HOV lanes in each direction between Camino Estrella Overcrossing and San Juan Creek Road Undercrossing. On- and off-ramps at Camino Las Ramblas/ PCH were reconstructed. Additionally, the I-5/PCH northbound connector and



## C. I-5 (Avenida Pico to San Juan Creek Road includes Pico Interchange)

I-5/Camino Las Ramblas Undercrossing were widened in both directions.

### **Cost:**

Segment 1: \$83.56 million.

Segment 2: \$75.24 million.

Segment 3: \$74.25 million.

### **Status:**

All segments of Project C opened to traffic at the same time in early 2018. Segment 1 was completed in August 2018, Segment 2 in July 2017 and Segment 3 in July 2018.

### **Present Day:**

This section of I-5 has high levels of traffic during the weekdays and weekends, as well as holidays, throughout the proposed project limits. The current traffic volume on this segment of I-5 is about 250,000 vehicles per day and is expected to increase by nearly six percent by 2035, bringing it up to 266,000 vehicles per day.

### **Benefits:**

This project eliminated a southbound lane drop at PCH by extending the southbound HOV lane between Camino Capistrano and Avenida Pico, and the northbound HOV lane between Avenida Pico and PCH. Elimination of the lane drop enabled more efficient operation of general purpose lanes and serves projected traffic volumes for the year 2040.

### **External Funding:**

The Board approved funding that supported these projects including:

Segment 1: \$28.47 in federal funds and \$43.74 million in state funds.

Segment 2: \$12.07 million in federal funds and \$46.78 million in state funds.

Segment 3: \$11.33 million in federal funds and \$20.79 million in state funds.

### **Risks:**

No risk to project delivery as the project is complete. Final claims remain pending in Segment 3, however, cost risk is low.

### **Related Projects:**

Project D.

### **Other Involved Agencies:**

Caltrans, cities of Dana Point, San Clemente, and San Juan Capistrano, CTC and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report - State Highway Project (February 2021)

## D. I-5 (El Toro Road Interchange) Improvements

### Description:

Proposed Project D improvements at I-5/El Toro Road Interchange include modifying entrance and exit ramps and modifying or replacing existing bridge structures.

### Cost:

\$120.52 million (YOE) is currently included in the cash flow however, once the selected project alternative is determined this will need to be updated.

### Status:

The environmental phase for this project began in April 2017. The Next 10 Plan includes funding this project through environmental. An alternatives assessment is being conducted with environmental clearance anticipated in late 2021 pending stakeholder consensus.

### Present Day:

This portion of I-5 has high levels of traffic during the weekdays and

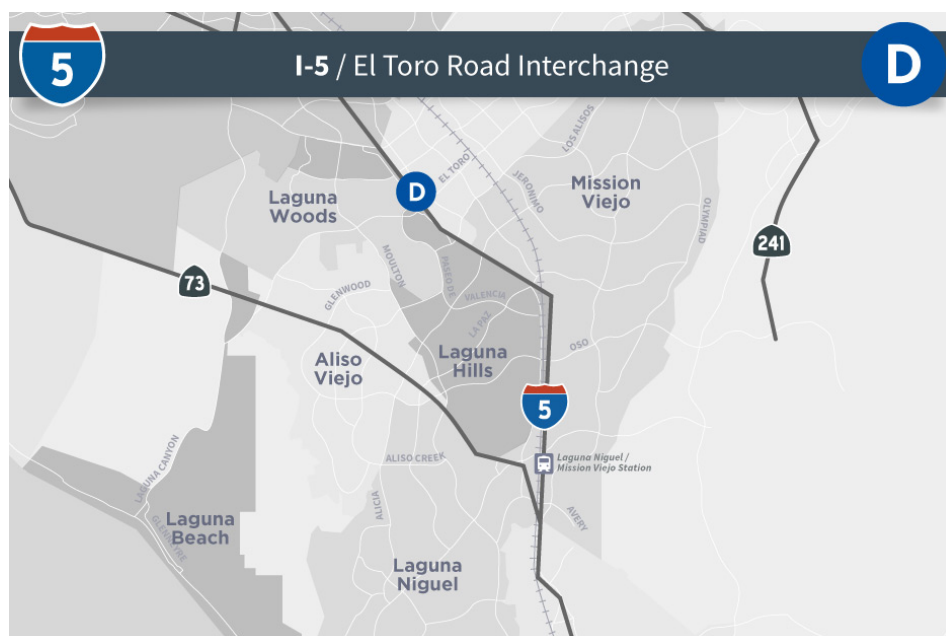
weekends, as well as holidays, throughout the proposed project limits. The current traffic volume on this segment of I-5 is about 355,000 vehicles per day and is expected to increase nearly nine percent by 2035, bringing it up to 388,000 vehicles per day.

### Benefits:

This project would reduce the chokepoint and better accommodate forecasted traffic demands. Modification of the entrance and exit ramps would alleviate congestion at adjacent intersections.

### External Funding:

The Board has approved \$4.40 million in federal funds for the environmental phase. Future phases are also eligible for state and federal funds. Any additional funding is expected to be submitted for Board approval at a later time.



## **D. I-5 (El Toro Road Interchange) Improvements**

### **Risks:**

Overall time, scope, and cost risks are high with this project due to the challenging project area with significant ROW impacts with study alternatives under consideration. Community concerns has resulted in a lack of consensus between the three stakeholder local jurisdictions. This project will need local jurisdiction consensus, before moving forward.

### **Related Projects:**

Project C.

### **Other Involved Agencies:**

Caltrans, cities of Laguna Hills, Laguna Woods, and Lake Forest, and FHWA.

### **Assumptions:**

Cost based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report - State Highway Project (February 2021)

## D. I-5 (Ortega Highway Interchange) Improvements

### Description:

Project D improvements include reconstruction of the I-5 interchange at State Route 74 (SR-74) in south Orange County, as well as widening SR-74, modifying entrance and exit ramps, and replacing the existing bridge structure.

### Cost:

\$79.80 million.

### Status:

The project opened to traffic on September 4, 2015 and was officially completed on January 15, 2016.

### Present Day:

Prior to completion of the project, the existing freeway overcrossing and on- and off-ramps did not accommodate existing and projected to-and-from street/freeway traffic.

### Benefits:

This project alleviated a major chokepoint and reduced congestion by widening the Ortega Highway Bridge and improving local traffic flow through reconfigured streets and on- and off-ramps.

### External Funding:

\$752,000 in federal funds, \$73.48 million in state funds, \$2.50 million in M1 funds from the regional interchange program, and \$5.01 million in other local funds were used for the project.

### Risks:

None – project completed.

### Related Projects:

Project C.





## **D. I-5 (Ortega Highway Interchange) Improvements**

### **Other Involved Agencies:**

Caltrans, City of San Juan Capistrano, and CTC.

### **Assumptions:**

Cost based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- January 2020 Project Status Report
- Capital Funding Program Report - State Highway Project (January 2020)

## E. SR-22 Access Improvements

### Description:

Project E constructed interchange improvements at Euclid Street, Brookhurst Street, and Harbor Boulevard to reduce freeway and street congestion near these interchanges.

### Cost:

\$25.8 million.

### Status:

These projects were part of the State Route 22 (SR-22) widening project completed in 2008 using M1 funds.

### Present Day:

The project widened the streets at the interchanges and were designed to improve accommodation of existing and projected traffic.

### Benefits:

The project reconstructed the freeway overcrossings to allow these streets to be widened through the interchange area. These improvements reduced congestion and delay at all three interchanges.

### External Funding:

\$15.9 million of M1 funds and \$9.9 million of other non-M2 (federal, state and city) funds were used for the project.

### Risks:

None – project completed.

### Related Projects:

West County Connector improvements at SR-22/I-405 and I-405/I-605 interchanges.

### Other Involved Agencies:

Caltrans and City of Garden Grove.

### Assumptions:

Completed as part of the M1 SR-22 Design/Build project.

### References:

- OCTA 2014 Long Range Transportation Plan



## F. SR-55 (I-405 to SR-91)

### Description:

Project F will increase freeway capacity and reduce congestion by adding lanes and operational improvements to SR-55 between I-405 and SR-91. This project is divided into two segments as described below.

#### Segment 1:

This project will add one general purpose lane (approximately four miles) between I-405 and I-5, including merging lanes between interchanges to smooth traffic flow. This segment will generally be constructed within the existing ROW. The general purpose lane will be funded with M2, state, and federal funds. Concurrent with these efforts, a second HOV lane will also be constructed between I-5 and I-405 with state and local funds.

#### Segment 2:

This project will add new lanes between I-5 and SR-22, including merging lanes between interchanges to smooth traffic flow. Operational improvements between SR-22 and SR-91 would also be incorporated. The environmental phase of this segment was completed in March 2020 and is ready to advance into design and construction. This segment will generally be constructed within the existing ROW.

### Cost:

Segment 1: \$503.22 million (YOE) which includes cost for potential ROW risk.

Segment 2: \$131.31 million (YOE).



## **F. SR-55 (I-405 to SR-91)**

### **Status:**

Segment 1 is currently in the design phase and is anticipated to begin construction in early 2022. Segment 2 began the environmental phase in late 2016 and completed in March 2020.

### **Present Day:**

This freeway carries about 316,000 vehicles on a daily basis. This volume is expected to increase by nearly eight percent by 2035, bringing it up to 340,000 vehicles per day in the future.

### **Benefits:**

This project will increase freeway capacity, improving mobility and reducing congestion in central Orange County areas by adding new lanes and making operational improvements for existing and forecasted traffic volumes (especially for weaving and lane efficiency at ramp junctions).

### **External Funding:**

Segment 1: The Board has approved providing \$202.4 million in federal funds and \$80.00 million in state funds. As previously mentioned, Caltrans has also committed \$42.70 million in State Highway Operation and Protection Program funds for this project. In addition, in December 2020, the project was awarded \$140.00 million in SB 1 funding.

Segment 2: The Board has approved providing \$5.00 million in federal funds for this project to support the environmental phase. This project is eligible for future state and federal funds.

### **Risks:**

Schedule, scope, and cost risks remain high on Segment 1 due to complex ROW impacts which rely on design variations. This may also delay receipt of the State's share of funding.

Overall schedule, scope, cost risks are low on Segment 2 at this time.

### **Related Projects:**

Projects A and B.

### **Other Involved Agencies:**

Caltrans, cities of Orange and Santa Ana, and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report - State Highway Project (February 2021)

## G. SR-57 Improvements

### Description:

Project G will increase capacity and reduce congestion by adding one general purpose lane in the northbound direction from Orangewood Avenue in the City of Orange to approximately Tonner Canyon Road in the City of Brea. Select northbound undercrossings will also be widening and seismically retrofitted, as required. The project is divided into three segments as described below.

#### Segment 1:

This project consists of three northbound sections including Katella Avenue to Lincoln Avenue, Orangethorpe to Yorba Linda Avenue, and Yorba Linda Boulevard to Lambert Road in the cities of Anaheim, Brea, Fullerton, and Placentia. Projects in this segment are complete.

#### Segment 2:

This project includes the addition of a northbound truck-climbing lane from

Lambert Road in the City of Brea to one-half mile south of the Los Angeles County line (approximately Tonner Canyon Road).

#### Segment 3:

This project includes adding one northbound general purpose lane from approximately Orangewood Avenue in the City of Orange to Katella Avenue in the City of Anaheim. Segment improvements would maintain the existing auxiliary lane and address existing non-standard features between Orangewood Avenue and Katella Avenue.

### Cost:

Segment 1: \$144.36 million.

Segment 2: \$212.30 million (YOE).

Segment 3: \$71.84 million (YOE).



## **G. SR-57 Improvements**

### **Status:**

Segment 1 was completed and opened to traffic in 2014. Segment 2 is planned to be environmentally cleared during the Next 10 Plan timeframe. Segment 3 completed the environmental phase in March 2019 and is anticipated to begin the design phase in early 2022.

### **Present Day:**

This freeway carries about 302,000 vehicles on a daily basis. This volume is expected to increase by nearly 13 percent by 2035, bringing it up to 342,000 vehicles per day in the future.

### **Benefits:**

This project will substantially improve existing and future mobility, reduce congestion, improve mainline weaving, and merge/diverge movements, which will improve both traffic operations and safety. Combined improvements from Orangethorpe Avenue to Tonner Canyon Road could achieve a 40 percent reduction in total delay through the SR-57 northbound corridor.

### **External Funding:**

Segment 1: \$104.85 million in state funds were used for the project.

Segment 2: Funding for this project was removed as part of the 2020 State Transportation Improvement Program (STIP), and a funding plan will be developed at a later date.

Segment 3: The Board has approved \$5.74 million in federal funds to support the environmental phase of this project.

Segments 2 and 3 are eligible for future state and federal funds.

### **Risks:**

Overall time, scope, costs, and quality risks are low to medium with this project due to construction within the existing ROW and relatively straightforward design issues. However, risks exist due to the potential need for seismic retrofitting of existing bridges.

### **Related Projects:**

Project H.

### **Other Involved Agencies:**

Caltrans, cities of Anaheim, Brea, Fullerton, Orange, and Placentia, CTC, and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report - State Highway Project (February 2021)

## H. SR-91 (I-5 to SR-57)

### Description:

Project H widened westbound SR-91 by connecting existing auxiliary lanes through interchanges, thus forming a fourth continuous general purpose lane between I-5 and SR-57. The project also replaced existing auxiliary lanes on westbound SR-91 between State College Boulevard and Raymond Avenue, and between Euclid Street and Brookhurst Street, and added a new auxiliary lane between Raymond Avenue and Lemon Street.

### Cost:

The cost for this project was \$59.23 million.

### Status:

The project opened to traffic in March 2016 and was officially completed in June 2016.

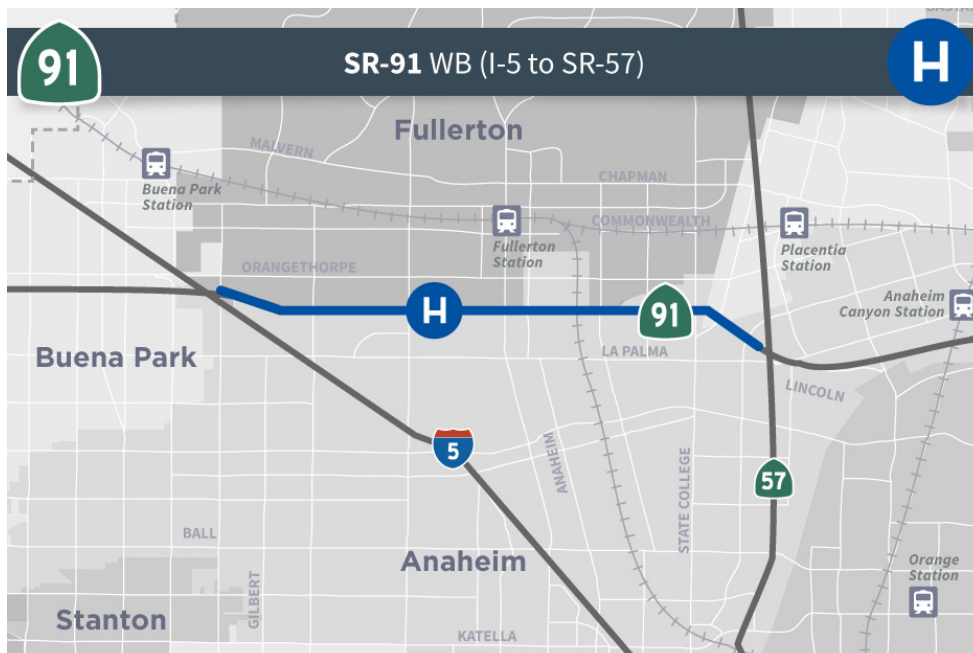
### Present Day:

SR-91 serves as a major commuting route connecting Orange County with Riverside and Los Angeles counties.

SR-91 is also one of the most congested freeways in Southern California. This freeway carries about 290,000 vehicles on a daily basis. This volume is expected to increase by nearly five percent by 2035, bringing it up to 304,000 vehicles per day in the future.

### Benefits:

This project alleviated congestion and increased mainline capacity by adding a continuous general purpose lane and replaced existing auxiliary lanes, which improved merging operations at each interchange.



## H. SR-91 (I-5 to SR-57)

**External Funding:**

\$27.23 million in state funds were used for the project.

**Risks:**

None – project completed.

**Related Projects:**

Project I.

**Other Involved Agencies:**

Caltrans, cities of Anaheim and Fullerton, and CTC.

**Assumptions:**

Cost based on December 2020 M2 Program Cash Flow.

**References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)



## I. SR-91 (Tustin Avenue Interchange to SR-55)

### Description:

Project I from Tustin Avenue Interchange to SR-55 added a westbound auxiliary lane, beginning at the northbound SR-55 to westbound SR-91 connector, through the Tustin Avenue interchange. The overall segment length was approximately two miles. Additional features of this project included widening the westbound Santa Ana River Bridge to accommodate the auxiliary lane.

### Cost:

The cost for this project was \$42.47 million.

### Status:

The project was completed and opened to traffic in 2016.

### Present Day:

SR-91 serves as a major commuting route connecting Orange County with Riverside and Los Angeles counties.

SR-91 is also one of the most congested freeways in Southern California. This freeway carries about 290,000 vehicles on a daily basis. This volume is expected to increase by nearly five percent by 2035, bringing it up to 304,000 vehicles per day in the future.

### Benefits:

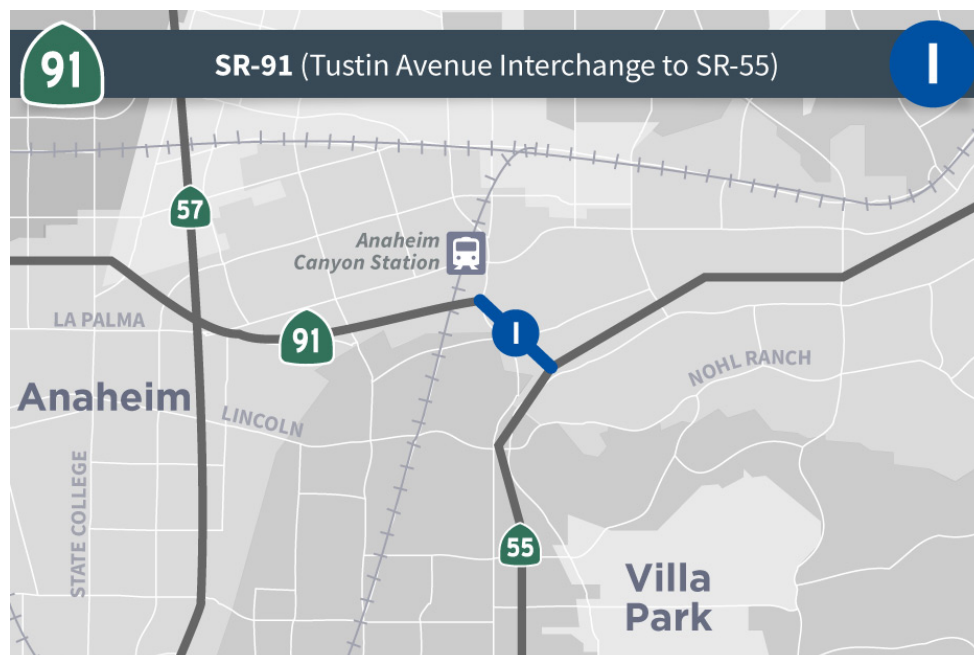
This project addressed chokepoint conditions and reduced operational problems, including weaving and merging maneuvers, which were primarily caused by extensive weaving between the northbound SR-55 to westbound SR-91 connector and the westbound SR-91 off-ramp to Tustin Avenue.

### External Funding:

\$29.75 million in state funds were used for the project.

### Risks:

None – project completed.



## **I. SR-91 (Tustin Avenue Interchange to SR-55)**

### **Related Projects:**

Projects H, I (SR-57 to SR-55) and J.

### **Other Involved Agencies:**

Caltrans, City of Anaheim, CTC, and FHWA.

### **Assumptions:**

Costs based December 2020 M2  
Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- January 2019 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2019)

## I. SR-91 (SR-57 to SR-55)

### Description:

Project I from approximately SR-57 to SR-55 will add one westbound general purpose lane from northbound SR-57 connector to westbound SR-91 connector, and one eastbound general purpose lane between SR-57 and SR-55. The project is divided into three segments as described below.

### Segment 1:

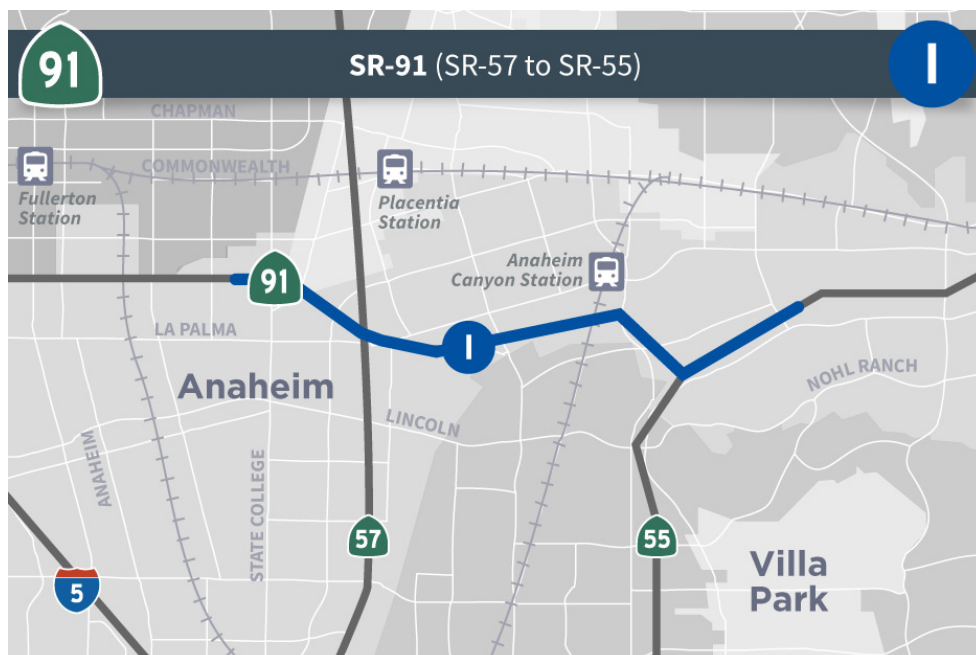
This project from SR-55 to Lakeview Avenue will realign the westbound on-ramp to direct traffic to westbound SR-91. This project will replace the Lakeview Avenue Bridge that will feature a new on-ramp from the Lakeview Avenue Bridge connecting directly to southbound SR-55 to increase freeway capacity and improve traffic operations in the Anaheim area.

### Segment 2:

This project from La Palma Avenue to SR-55 will add an eastbound general purpose lane on SR-91 between La Palma Avenue and SR-55 (approximately 2.3 miles) and include bridge replacements at Glassell Street/Kraemer Boulevard and Tustin Avenue to increase freeway capacity and reduce congestion in the cities of Anaheim and Fullerton.

### Segment 3:

This project from Acacia Street to La Palma Avenue will add a fourth general purpose lane on westbound SR-91 from the northbound SR-57 to westbound SR-91, make improvements to the weave from westbound SR-91 to northbound and southbound SR-57, and replace the bridge at La Palma Avenue to enhance westbound operations on SR-91, increase overall freeway capacity, and reduce congestion in the cities of Anaheim and Fullerton.



## **I. SR-91 (SR-57 to SR-55)**

### **Cost:**

Segment 1: \$100.91 million (YOE).

Segment 2: \$208.45 million (YOE).

Segment 3: \$116.20 million (YOE).

### **Status:**

The environmental phase for all three segments was completed in June 2020.

Segment 1: The design phase was initiated in March 2020.

Segment 2: The design phase was initiated in June 2020.

Segment 3: The design phase was initiated in November 2020.

### **Present Day:**

Current freeway volume on this segment of the SR-91 is about 250,000 vehicles per day. This vehicular demand is expected to increase by 12 percent by 2035, bringing it up to 280,000 vehicles per day in the future.

### **Benefits:**

Segment 1 improvements are expected to alleviate congestion and reduce delay by improving the connection from Lakeview Avenue to southbound SR-55.

Segment 2 improvements will increase freeway capacity in the eastbound direction and reduce traffic congestion.

Segment 3 improvements will enhance westbound operations and increase freeway capacity.

### **External Funding:**

The Board has approved funding that supports this project including:

Segment 1: \$1.77 million in federal funds and \$13.98 million in 91 Express Lanes excess revenue.

Segment 2: \$3.46 million in federal funds and \$42.81 million in 91 Express Lanes excess revenue.

Segment 3: \$1.77 million in federal funds and \$14.40 million in 91 Express Lanes excess revenue.

### **Risks:**

Overall time, scope and costs risks are high. High risk is the result of refined design options that require Caltrans concurrence, which remain under review.

### **Related Projects:**

Projects H, I (Tustin Avenue Interchange to SR-55), and J.

### **Other Involved Agencies:**

Caltrans, cities of Anaheim, Fullerton, Orange, and Placentia, CTC, and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)

## J. SR-91 (SR-55 to I-15)

### Description:

Project J includes the addition of capacity on SR-91 from SR-55 to I-15 in Riverside County and is divided into three segments.

#### Segment 1:

This project improved six-miles of SR-91 by adding one eastbound lane from one-mile east of SR-241 to State Route 71 (SR-71) in Riverside County. This project was led by RCTC in coordination with Caltrans District 8.

#### Segment 2:

This project improved approximately six miles of SR-91 between SR-55 and SR-241 by adding one new lane in each direction and improved key interchanges. Additional improvements included the widening and seismic retrofitting for the Imperial Highway and Weir Canyon Road undercrossing bridges. This project was led by OCTA in coordination with Caltrans District 12.

#### Segment 3:

This project requires coordination and funding agreements with RCTC to

deliver complementary improvements between SR-241 and I-15 in Riverside County. Potential improvements are being assessed.

### Cost:

Segment 1: \$57.77 million.

Segment 2: \$79.74 million.

Segment 3: \$300.00 million (YOE).

### Status:

Segment 1 was completed in January 2011, and Segment 2 was completed in March 2013.

Segment 3 is contingent on the future widening in Riverside County to match the planned lanes in Orange County. The segment was environmentally reviewed as part of the RCTC's Corridor Improvement Project. RCTC and OCTA have agreed to advance the westbound direction of this segment by adding a general purpose lane (two miles in length) from Green River Road to SR-241. RCTC is the lead agency



## J. SR-91 (SR-55 to I-15)

and OCTA contributed \$15 million towards the project. The eastbound lane is more challenging due to engineering constraints. An alternatives analysis/feasibility study was initiated to evaluate potential improvements along eastbound SR-91. It is anticipated to be completed in mid-2021.

### **Present Day:**

Today, this freeway carries about 328,000 vehicles every day. This volume is expected to increase by 15 percent, bringing it up to 378,000 vehicles by 2035.

### **Benefits:**

Segment 1 improvements added one general purpose lane, which improved weaving by reducing the volume of exiting vehicles in the SR-91 mainline through lanes that are exiting at Green River Road and SR-71.

Segment 2 improvements helped to alleviate congestion and reduce delay.

Segment 3 proposed improvements are expected to reduce congestion and delay and improve operational efficiency by increasing capacity and by reducing the existing chokepoints within the project limits.

### **External Funding:**

Segment 1: \$45.91 million in federal funds and \$4.92 million in local funds were used for this project.

Segment 2: \$76.30 million in state funds were used for this project. An additional \$2.90 million in state funds were used for replacement planting.

Segment 3: \$15.00 million of 91 Express Lanes excess revenue is Board approved for the Orange County portion of this segment. RCTC will contribute \$26.80 million in funding for the project.

### **Risks:**

No risks for Segments 1 and 2 as they are complete.

For Segment 3, time, scope, and costs risks are dependent upon required coordination with RCTC. Eastbound improvements have many engineering challenges due to project area topography (Santa Ana Canyon) and natural constraints (Santa Ana River).

### **Related Projects:**

Project I and the Riverside County Corridor Improvement Project.

### **Other Involved Agencies:**

Caltrans, cities of Anaheim and Yorba Linda, County of Orange, CTC, and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2012 Project Status Report (Segment 1)
- June 2018 Project Status Report (Segment 2)
- December 2020 Project Status Report (Segment 3)
- Capital Funding Program Report – State Highway Project (February 2021)

## K. I-405 (SR-73 to I-605)

### Description:

Project K includes the addition of new lanes to I-405 between SR-73 and I-605. The project will make the best use of available freeway property by staying generally within the freeway ROW and updating key local interchanges to current Master Plan of Arterial Highway (MPAH) standards. The project will add one general purpose lane in each direction of I-405 from Euclid Street to I-605.

Concurrently with Project K, an additional lane will be added in each direction that would combine with the existing HOV lane to provide dual express lanes in each direction on I-405 from SR-73 to I-605. The general purpose lanes will be funded with M2, state, and federal funds; the express lanes will be funded solely with toll revenues.

### Cost:

M2 Portion: \$1.560 billion (YOE).

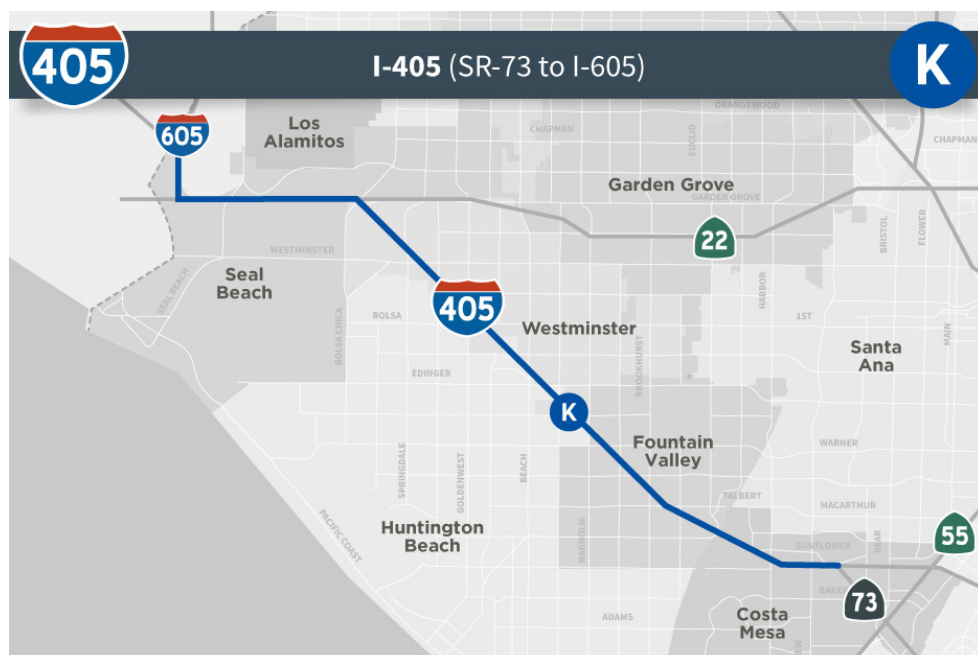
Express Lanes Portion: \$520 million (YOE).

### Status:

Project K is currently about halfway through the design/build contract phase. Design/build is a project delivery method in which one team is hired to perform both the design and construction of the project. The project is expected to be open to traffic in 2024.

### Present Day:

On average, I-405 carries approximately 392,000 vehicles daily. The volume is expected to increase by 20 percent by 2035, bringing it up to 472,000 vehicles daily. The project will increase freeway capacity, reduce congestion, enhance operations, increase mobility, improve trip reliability, and maximize throughput on I-405.



## **K. I-405 (SR-73 to I-605)**

### **Benefits:**

Project K includes the addition of auxiliary and general purpose lanes. These improvements would help reduce congestion and improve travel times. Additional improvements include interchange and local street improvements, and a direct Express Lanes connector at the I-405/SR-73 Interchange.

The express lanes will operate congestion-free throughout the day, due to toll rates that vary based on traffic demand. The express lanes provide commuters with a reliable travel option compared to the adjacent, general purpose lanes.

M2 improvements, in combination with express lanes improvements, will provide more throughput in the corridor. These improvements will add two additional freeway lanes to I-405 in both directions between Euclid Street to the I-605 interchange.

### **External Funding:**

The Board has approved funding supporting this project, including \$89.77 million in a contribution of state funds, and \$45.65 million in federal funds. The project also successfully secured \$628.93 million from Transportation Infrastructure Finance and Innovation Act (TIFIA), a low-cost federal loan. The M2 cash flow will benefit from \$153.93 million in TIFIA revenues for this project. The entire TIFIA loan will be paid back solely with toll revenues.

### **Risks:**

Overall time, scope, utility relocation, archeological discoveries and cost risks are high with this project due to the extensive project scope.

### **Related Projects:**

Project L and WCC improvements at SR-22/I-405 and I-405/I-605 interchanges (mentioned under Project E).

### **Other Involved Agencies:**

Caltrans, Build America Bureau TIFIA Office, cities of Costa Mesa, Fountain Valley, Huntington Beach, Seal Beach, and Westminster, Community of Rossmore, CTC, and FHWA.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow. M2 will only pay for the addition of the general purpose lanes. Toll revenues will pay for the 405 Express Lanes.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)



## L. I-405 (I-5 to SR-55)

### Description:

Project L will add new lanes to I-405 from the vicinity of I-5 to SR-55 to alleviate congestion and reduce delay. The project will generally be constructed within the existing ROW.

### Cost:

\$262.39 million (YOE).

### Status:

The project completed the environmental phase in August 2018 and is shelf-ready to begin the design phase.

Project B (I-5, I-405 to SR-55) is a parallel project designated for construction. As a result, this project will follow to avoid excessive inconvenience to the traveling public.

### Present Day:

This segment of the freeway carries 296,000 vehicles a day. This number will increase by nearly 22 percent, bringing it up to 362,000 vehicles per day by 2035.

### Benefits:

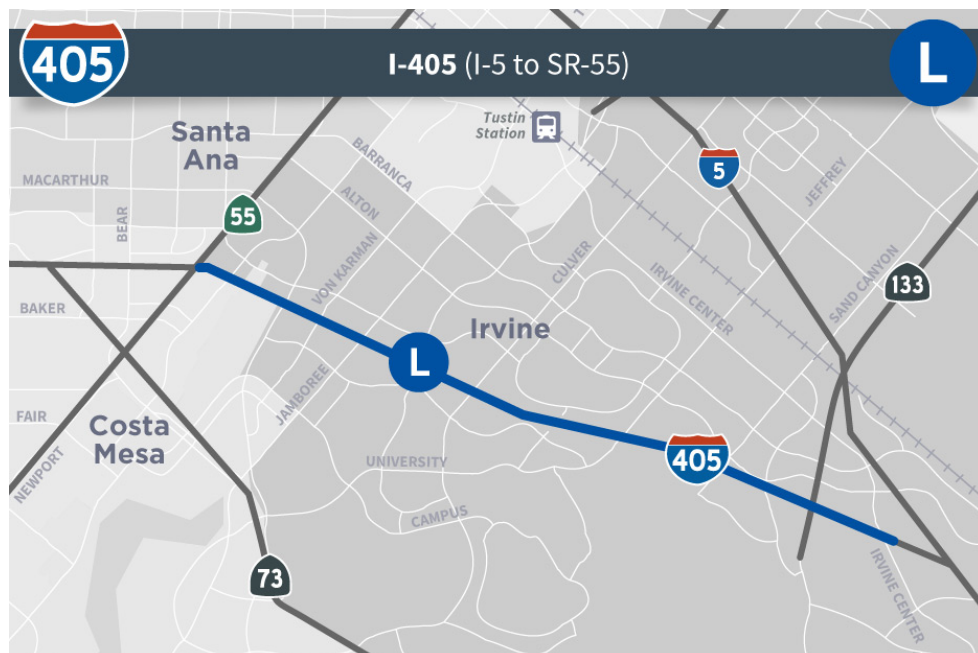
Improvements between I-5 and SR-55 would help alleviate congestion and reduce delay.

### External Funding:

The Board approved providing \$8.00 million in federal funds to support the environmental phase of the project. This project is eligible for future state and federal funds.

### Risks:

Overall time, scope, and costs risks are low with this project due to low ROW impacts and straightforward design.



## **L. I-405 (I-5 to SR-55)**

### **Related Projects:**

Projects B and K.

### **Other Involved Agencies:**

Caltrans, City of Irvine, CTC, FHWA, and Transportation Corridor Agencies.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)

## M. I-605 (Katella Avenue Interchange) Improvements

### Description:

Project M includes improvements to I-605 freeway access and the arterial connection at Katella Avenue, which serves communities in the cities of Cypress and Los Alamitos.

### Cost:

The cost for this project is estimated to be \$29.02 million (YOE).

### Status:

The environmental phase for this project was completed in late 2018 and was done in cooperation with the City of Los Alamitos. A design consultant was approved by the Board on August 10, 2020 and the contract was executed on December 28, 2020. Design is anticipated to begin in January 2021.

### Present Day:

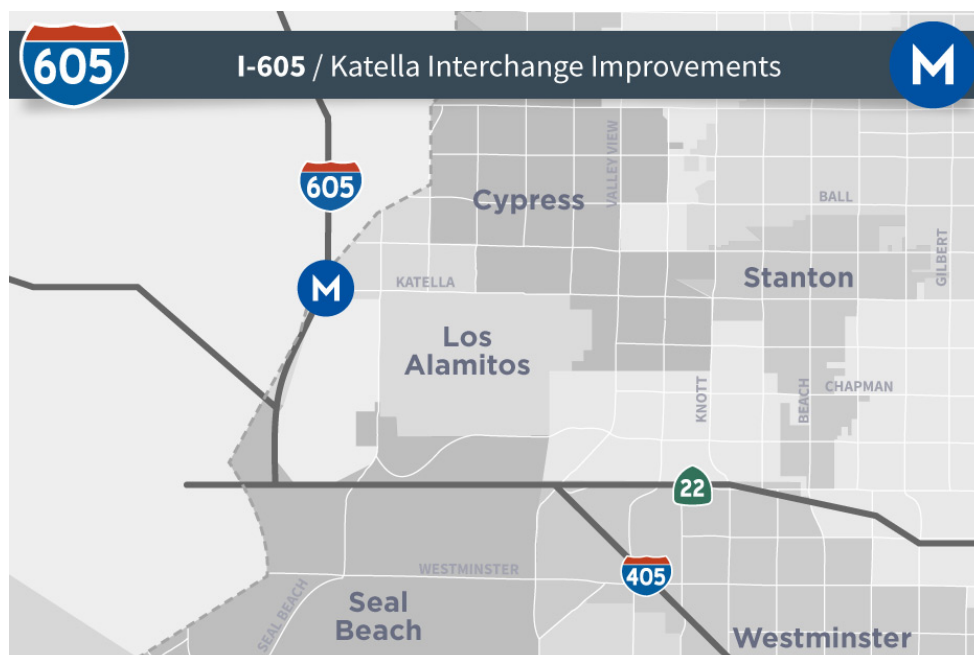
The existing interchange design is outdated and results in both arterial congestion and freeway queuing in the interchange area.

### Benefits:

The I-605/Katella Avenue interchange project would include both freeway and arterial improvements that would improve interchange traffic operations and improve bicycle and pedestrian facilities while minimizing adjacent ROW and environmental impacts. Additionally, these improvements would reduce congestion, traffic queuing, and delay within the interchange area.

### External Funding:

The construction phase of this project is eligible for future state and federal funds.



## **M. I-605 (Katella Avenue Interchange) Improvements**

### **Risks:**

Overall time, scope, and costs risks are low with this project due to low ROW impacts and straightforward design.

### **Related Projects:**

Project K and I-405/I-605/SR-22 HOV connector project (West County Connector).

### **Other Involved Agencies:**

Caltrans and City of Los Alamitos.

### **Assumptions:**

Costs based on December 2020 M2 Program Cash Flow.

### **References:**

- OCTA 2018 Long Range Transportation Plan
- December 2020 Project Status Report
- Capital Funding Program Report – State Highway Project (February 2021)

## N. Freeway Service Patrol

### Description:

The FSP provides competitively-bid, privately contracted tow truck service to help stranded motorists quickly clear disabled vehicles and large debris from freeway lanes to minimize congestion caused by blocked traffic lanes and passing motorists rubbernecking. Currently FSP is available on various Orange County freeways, seven days a week. This project assures that this basic level of service will be continued through 2041.

### Program Funding:

\$42.2 million in M2 revenue between 2021 and 2030.

### Status:

FSP is primarily funded by State Highway Account (SHA) and Road Repair and Accountability Act of 2017 (SB 1) funds. OCTA meets matching fund requirements by utilizing a portion of its share of Service Authority for Freeway Emergencies (SAFE) funds, which are collected by the Department of Motor Vehicles each year.

As demand, congestion levels, and costs increase, this project will permit the program to maintain existing service hours and allow service to be extended throughout the day and on weekends on additional freeway segments.

M2 also helps support California Highway Patrol as the partner responsible for field supervision. Currently, M2 funds a full-time dispatcher to ensure dispatcher coverage seven days a week.

### Present Day:

In FY 2019-20, the FSP program provided a total of 56,374 assists to motorists on the Orange County Freeway system.

### Benefits:

To keep Orange County moving, FSP provides free limited roadside assistance to motorists whose vehicles have become disabled on an Orange County freeway. Assistance is limited to taping a hose, providing water for a radiator, a jump start, a gallon of gas, a tire change, or towing a disabled vehicle off the freeway to a designated drop zone where the motorist may seek additional assistance.

In FY 2018-19, for every dollar invested in the program, Orange County received approximately \$6 of congestion relief benefit.

### External Funding:

SHA allocation provided by Caltrans – approximately \$2.2 million annually.

SB 1 allocation provided by Caltrans – approximately \$2 million annually.

SAFE (\$1 per vehicle registration fee) funds not allocated to the Freeway Call Box and 511 Motorist Assistance and Traveler Information programs are available for FSP program use, to meet local match fund requirements – approximately \$1.2 million annually.

### Risks:

Should the State of California stop funding FSP through the SHA and SB 1, M2 will not be sufficient to maintain existing service levels.

## **N. Freeway Service Patrol**

### **Related Projects:**

M2 Project N funds are designated to maintain existing service levels, provide midday and weekend service, and support FSP service for construction of Projects A-M.

### **Other Involved Agencies:**

Caltrans and California Highway Patrol.

### **Assumptions:**

Project N is assumed to be funded on a pay-as-you-go basis. Funding provided through the SHA and SB 1 are allocated first, and then M2 funding is applied as needed.

### **References:**

- M2 Project N Guidelines Freeway Service Patrol Project, Approved on February 13, 2012

# Environmental Mitigation Program



## Overview:

The EMP provides for allocation of five percent of the total M2 freeway budget for comprehensive environmental mitigation related to impacts from freeway improvements. The EMP was approved by Orange County voters under the M2 half-cent sales tax for transportation improvements in 2006.

A master agreement between OCTA, Caltrans, and state and federal resource agencies was approved in January 2010. This offers higher-value environmental benefits such as habitat protection, connectivity, and resource preservation in exchange for streamlined project approvals for the 13 (segmented into 30) M2 freeway projects.

To adhere to the promise of M2, the Next 10 Plan includes the following framework for the Mitigation Program as it relates to Projects A-M:

- Streamline freeway projects through the biological permitting process.
- Provide comprehensive environmental mitigation.
- Partner with state and federal resource and regulatory agencies.
- Provide higher-value environmental benefits such as habitat protection, connectivity, and resource preservation.

## Next 10 Deliverables:

In 2009, the Board approved a policy to allocate approximately 80 percent of the revenues to acquisitions and 20 percent to fund restoration projects. This policy will need to be revisited periodically to ensure it continues to meet program needs. The Next 10 Plan recommends four major initiatives through 2030 consistent with the above framework:

1. Oversee and manage the Preserves while the endowment is being established and determine long term land manager(s) and endowment holder(s).
2. Focus EMP resources funding as a first priority toward the establishment of the endowment for the Preserves.
3. Review and update the resource management plans (RMP) on the Preserves as appropriate (projects A-M). This includes the development of fire management plans (FMP) for each of the Preserves.
4. Complete approximately 350 acres of restoration projects funded through M2 to fulfill the Conservation Plan commitments. This includes working with the restoration project sponsors to remediate damages caused by the 2020 Silverado and Bond fires.

## Environmental Mitigation Program

### **Description:**

In July 2010, OCTA began preparing a Conservation Plan, which examines habitat resources within broad geographic areas and identifies conservation and mitigation measures to protect habitat and species. This analysis was completed in late 2016; in accordance with the master agreement “advance credit” provision, funds were allocated prior to completion of the Conservation Plan. In June 2017, the United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW) (collectively, Wildlife Agencies) finalized the issuance of their respective biological opinion, findings, and associated permits, as well as signed the Conservation Plan Implementing Agreement. Receipt of these permits represent the culmination of years of collaboration and support by the Board, environmental community, and Wildlife Agencies.

Concurrent with efforts made toward completing the Conservation Plan and EIR/Environmental Impact Statement (EIS), OCTA collaborated with the United States Army Corps of Engineers (USACE) and the State Water Resources Control Board (SWRCB) - regulatory agencies - to streamline the regulatory permitting process. In 2017, the USACE issued a programmatic permit to OCTA and Caltrans (as owner/operator of the state highway system). The SWRCB provided a letter to OCTA in 2018, which further secured assurances related to advanced mitigation and freeway project permit issuance.

RMPs for each of the seven Preserves were finalized in 2018. These RMPs guide the management of the Preserves as outlined within the Conservation Plan. The Conservation Plan also requires that each Preserve also have a Preserve specific FMP. These FMPs are being developed in coordination with local fire agencies and will require approval from the Wildlife Agencies. The FMPs will be attachments to the RMPs. Staff will continue to oversee and manage the Preserves until a long-term manager(s) is established.

### **Cost:**

In 2007, the Board approved approximately \$55 million as part of the EAP. Accordingly, \$42 million and \$10.5 million were allocated for acquisition and restoration, respectively. An additional \$2.5 million was allocated for the Conservation Plan development and program support, including appraisals and biological surveys.

### **Status:**

Since September 2010, a total of \$10 million has been allocated for 12 projects to restore approximately 350 acres of open space lands throughout Orange County.

On September 26, 2016, the Board approved the selection of the endowment fund manager. Annually, approximately \$2.9 million is deposited in the endowment. These annual deposits are expected over a ten to 12 year period, or until the fund totals approximately \$46.2 million. In July 2020, OCTA made its fifth



## Environmental Mitigation Program

endowment deposit. As of December 31, 2020, the balance was \$17,664,006. Annual endowment deposits will continue to be made near the beginning of each fiscal year.

The Wildlife Agencies finalized the issuance of their respective permits, as well as executing the Implementing Agreement in June 2017. In January 2018, OCTA secured advance streamlined state and federal clean water permitting requirements.

All seven Preserves have finalized RMPs and are being managed and protected for an interim period by OCTA staff and consultants. These RMPs will be reevaluated every five years and revised as necessary. Staff will continue to oversee and manage the Preserves until a long-term manager(s) is established.

### **Present Day:**

In consultation with the local fire authority, staff has begun the preparation of FMPs for the seven Preserves. The plans will provide guidelines for decision-making at all stages including fire prevention, pre-fire vegetation management, suppression activities, and post-fire responses that are compatible with conservation and stewardship responsibilities. These plans are a requirement of the Conservation Plan and will require approval by the Wildlife Agencies.

### **Benefits:**

The completed Conservation Plan and regulatory permitting process are tools by which OCTA obtains biological and regulatory permits/assurances for the

13 (now subdivided into multiple segments) M2 freeway projects. This comprehensive process enables OCTA to streamline future M2 freeway improvement projects.

### **External Funding:**

Examples of external funding available for this program include:

- USFWS contribution toward the acquisition of open space land in the Trabuco Canyon area.
- USFWS Habitat Conservation Planning Assistant Grant to help fund the completion of the Conservation Plan.
- Restoration project sponsors utilize external funds and resources to implement their projects.

### **Risks:**

The success of the restoration projects will support OCTA's Conservation Plan and regulatory permitting processes. However, unforeseeable conditions such as the frequency of drought and wildfires have and may continue to impact plant reestablishment. Additional funding may be necessary to ensure successful implementation of the restoration projects if the Wildlife Agencies do not sign off on the project under current conditions.

OCTA will need to establish the endowment over a ten to 12-year period. OCTA currently holds the title and interim land management responsibility of the Preserves but will eventually need to secure a long-term land manager(s).

## Environmental Mitigation Program

### **Related Projects:**

Projects A-M.

### **Other Involved Agencies:**

Caltrans, CDFW, the environmental community, SWRCB, USACE, and USFWS.

### **Assumptions:**

This program is assumed to be funded primarily on a pay-as-you-go basis in the future, in addition to prior bonding issuances. More detailed assumptions are included in the appendices.

### **References:**

- Final Conservation Plan and EIR/EIS
- Additional resources can be found online: [www.octa.net/environmental](http://www.octa.net/environmental)

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**2020**  
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# NEXT 10

## DELIVERY PLAN

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### Streets & Roads Program

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**ⓐ Regional Capacity Program**

- Competitive program with annual call for projects for roadway improvements (not mapped)
- OC Bridges Grade Separation Projects (see map above)

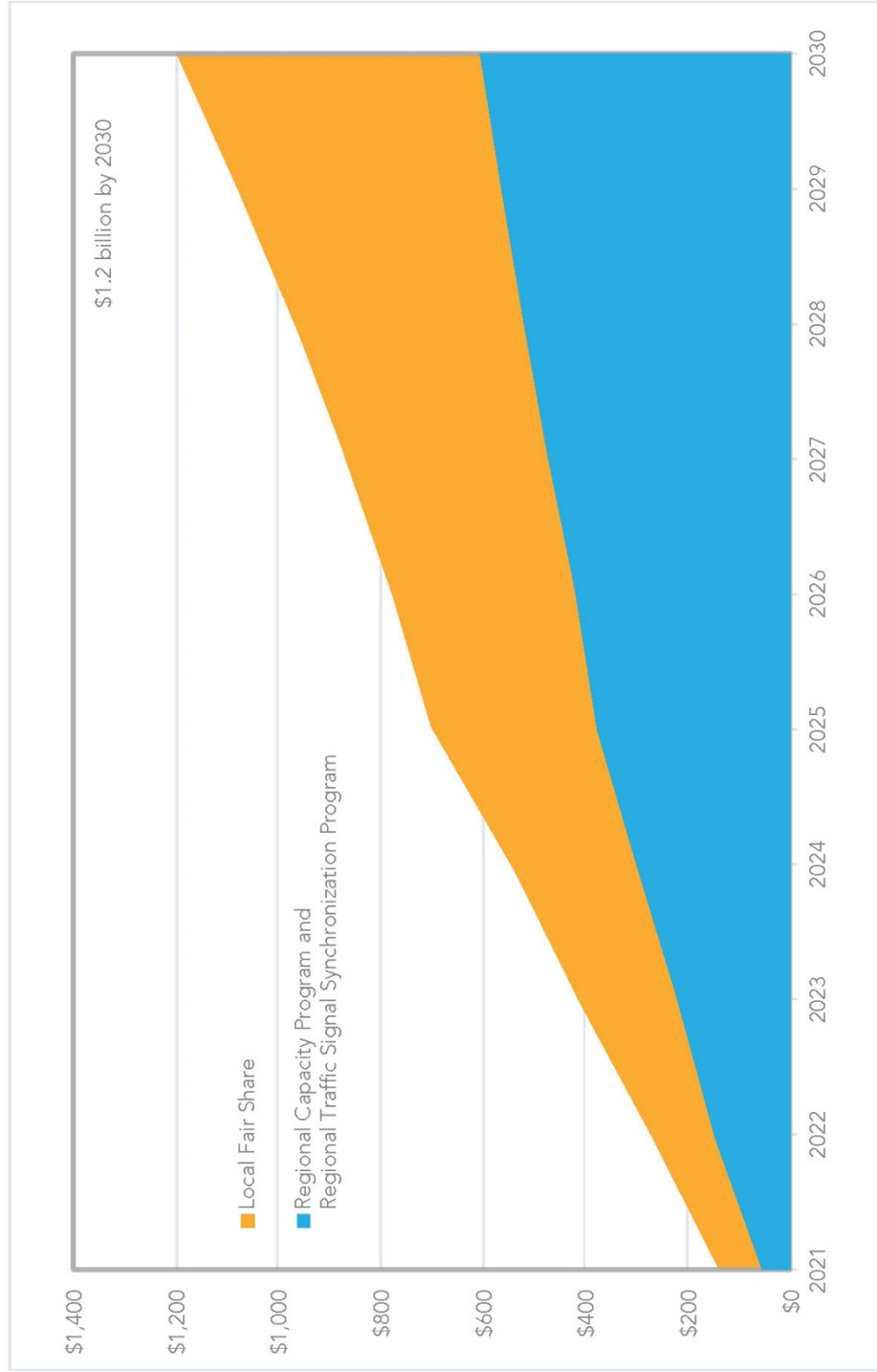
**ⓑ Regional Traffic Signal Synchronization Program** (see map above)

- Competitive program with annual call for projects for signal coordination

**ⓒ Local Fair Share Program** (not mapped)

- Flexible funding to local jurisdictions for street maintenance and improvements

OC Go Streets and Roads Cumulative Expenditures



## Streets and Roads



### Overview:

Local streets provide the capacity for the movement of people and goods which is essential to Orange County's commerce and vitality. Streets carry approximately half of Orange County's car and truck traffic and nearly all of Orange County's bicycle and pedestrian traffic. Keeping people moving on local streets is an essential function of the M2 funding programs for local streets. To meet this broad mobility goal, the Next 10 Plan includes the following framework for the Streets and Roads Program:

- Target M2 competitive program funds for streets with the worst traffic congestion.
- Maintain the value of investments in streets by synchronizing traffic signals and keeping pavement in good condition.
- Keep traffic moving on Orange County streets by completing key grade separations along the BNSF corridor in north Orange County.
- Consider all modes of travel when planning for added street capacity.

### Next 10 Deliverables:

Continue to provide funding to improve the countywide network of streets and roads making them safer and more efficient. The Next 10 Plan for streets and roads recommends two major initiatives through 2030, consistent with the above framework:

1. Provide annual calls for competitive funding to local jurisdictions to address bottlenecks and gaps in the street system and synchronize signals (Project O and P).
2. Provide flexible funding to local jurisdictions to preserve the quality of streets or for use on other transportation needs as appropriate (Project Q).



## O. Regional Capacity Program

### Description:

Project O provides funding through a competitive process to local jurisdictions for recommended streets and roads projects which complete the Orange County MPAH, relieve congestion, are cost effective, and can proceed to construction quickly. These projects fall into one of two categories as described below.

RCP: This portion of Project O provides a funding source to complete the Orange County MPAH, a plan for future roadway improvements throughout Orange County, that includes considerations for bicycle and pedestrian components as part of each project as applicable to local conditions. This includes intersection improvements and other projects that help improve street operations and reduce congestion. The M2 goal for these projects is to complete roughly 1,000 miles of new street lanes, mostly in the form of widening existing streets to their ultimate planned width. Matching local funds are required for these projects.

OC Bridges: This portion of Project O funded seven over- or underpass grade separations that eliminate car and train conflicts along the BNSF Railway (Orangethorpe corridor) in northern Orange County. These grade separations increased safety for everyone traveling through the intersections and eliminate delays caused by trains.

### Program Funding:

RCP: \$400 million between 2021 and 2030.

OC Bridges: The current program funding is \$214.08 million in federal funds and \$260.87 million in state funds.

### Status:

To date, OCTA has awarded \$319 million to 155 projects through ten competitive RCP calls. Annual calls are planned for projects between 2021 and 2030.

As of May 2018, all seven planned grade separation projects are complete (Kraemer Boulevard, Lakeview Avenue, Orangethorpe Avenue, Placentia Avenue, Raymond Avenue, State College Boulevard, and Tustin Avenue/Rose Drive).

### Present Day:

Annual RCP calls take place providing local jurisdictions the opportunity to request funding for street improvements.

### Benefits:

Completion of the MPAH system, including grade separations will result in better traffic flow and a more efficient transportation system.

## O. Regional Capacity Program

### External Funding:

RCP: Local jurisdictions are required to provide a 50 percent local match. Matching funds may be reduced contingent on participation in pavement and signal programs, as well as use of non-M2 funds for local match. While other external state and federal funding are not typically used for RCP projects, there have been eight projects to date which qualified for and received SLPP state funds, amounting to approximately \$24 million.

OC Bridges: The Board approved the use of \$214.08 in federal funds and \$260.87 million in state funds for this project. Additionally, local jurisdictions provided \$43.33 million in funding. OC Bridges funding includes 78 percent in external local, state, and federal funds.

### Risks:

Local jurisdictions must meet and maintain eligibility requirements to receive net M2 funds. Local jurisdictions also must meet timely use of funds provisions included in M2.

### Related Projects:

Project P and Project Q.

### Other Involved Agencies:

All local jurisdictions (cities and County of Orange).

### Assumptions:

Project O is assumed to be funded primarily on a pay-as-you-go basis with bonding for the seven OC Bridges projects. More detailed assumptions are included in the appendices.

### References:

- M2 Eligibility Guidelines
- Comprehensive Transportation Funding Guidelines
- Orange County MPAH Guidelines
- Commuter Bikeways Strategic Plan
- Capital Funding Program Report – Local Road Project (July 2020)

## P. Regional Traffic Signal Synchronization Program

### **Description:**

Project P provides funds to local jurisdictions to implement new signal timing on a 750-mile regional network that covers most of Orange County. Optimizing traffic signal timing is a low-cost, high-benefit approach to reducing congestion and improving traffic flow. Better signal timing results in fewer traffic stops, delays, pollution, and saves commuters gas and money.

### **Program Funding:**

\$219 million between 2021 and 2030.

### **Status:**

As of December 2020, OCTA has awarded more than \$132.3 million, including approximately \$30.4 million in external funding, to 120 projects. Annual calls are planned for projects between 2021 and 2030.

Including early efforts, OCTA and local jurisdictions have synchronized more than 3,000 intersections and implemented 89 corridor-based signal synchronization projects since 2008 for a cost of approximately \$64.8 million (including non-M2 funds). Another 28 projects are planned or underway. From 2021-2030, the entire network of signals is anticipated to have been retimed or optimized at least two times. This equates to more than 4,000 intersections retimed over a ten-year period (2021 to 2030).

### **Present Day:**

In the past, many traffic signal synchronization projects were limited to segments of roads in individual cities. M2 provides funds to expand these

projects to benefit neighboring cities and regional corridors.

### **Benefits:**

Optimizing signal timing offers substantial benefits in reducing traffic delays and improving air quality. To date, OCTA has implemented optimized signal timing on 89 corridors with 3,003 intersections covering 772 miles of roadway. On the average, each project resulted in a 13 percent travel time savings for corridor end-to-end travel, saving commuters time and money for a relatively low investment. Future projects may see comparable benefits when combined with capital improvements to reduce physical bottlenecks where appropriate.

### **External Funding:**

Local jurisdictions are required to provide a 20 percent local match. Matching funds may be in-kind services. There may be future needs for more capital-intensive investments as systems age.

Projects started prior to the 2011 call were funded with \$4.95 million in M1, \$1.77 million in federal Congestion Mitigation and Air Quality Improvement (CMAQ), and \$3.85 million in Prop 1B funds. The 2013 call was partially funded with \$1.25 million in MSRC grant money. The 2018 call was able to leverage \$6.69 million in SB 1 Local Partnership Program competitive grant funds. OCTA was also able to leverage \$12 million in SB 1 Solutions for Congested Corridor Program competitive grant funds for three corridor projects outside the 2020 call. In all, external funding (not including

## **P. Regional Traffic Signal Synchronization Program**

funds provided by local jurisdictions) contributed is approximately \$30.4 million.

### **Risks:**

Local jurisdictions must meet eligibility requirements and timely-use-of-funds provisions to receive M2 funding.

### **Related Projects:**

Project O (RCP) and Project Q.

### **Other Involved Agencies:**

Caltrans and all local jurisdictions (cities and County of Orange).

### **Assumptions:**

Project P is assumed to be funded on a pay-as-you-go basis.

### **References:**

- M2 Eligibility Guidelines
- Comprehensive Transportation Funding Program Guidelines
- OCTA's Comprehensive Business Plan
- Capital Funding Program Report – Local Road Project (July 2020)

## Q. Local Fair Share Program

### Description:

Project Q provides formula based LFS funds that local jurisdictions may use for a variety of purposes and needs, including repairing aging streets, residential street projects, bicycle lanes, and pedestrian safety (plus other transportation uses).

Key among these needs includes pavement preservation, which involves extending the useful life of pavement and avoiding costly street reconstruction. Preserving and maintaining roads in good condition is a key goal of M2 and Project Q in particular.

### Program Funding:

Up to \$600 million will be provided between 2021 and 2030.

### Status:

As of December 2020, approximately \$475.6<sup>4</sup> million in LFS payments have been provided to local jurisdictions and the County.

Orange County streets are in generally good condition on average (with a pavement condition index of 79 based on the 2018 statewide report). As roadway pavement conditions deteriorate, however, the cost for repairs increases exponentially. For example, it costs as much as 14 times more to reconstruct pavement than to preserve it when it is in good condition.

### Present Day:

The cost of street rehabilitation has increased substantially in recent years, and gas tax revenues have not kept pace with these increases which has a direct impact on the ability to fund street maintenance and rehabilitation.

### Benefits:

Investments in streets and roads save future costs, keep traffic moving, and offer expanded travel choices.

LFS funds are also flexible and can be used as matching funds for capacity and safety projects, bike and pedestrian facilities, as well as local transit services.

### External Funding:

This program is not externally funded.

### Risks:

Local jurisdictions must meet eligibility requirements and timely-use-of-funds provisions to receive M2 funding.

### Related Projects:

Project O (RCP) and Project P.

### Other Involved Agencies:

All local jurisdictions (cities and County of Orange).

### Assumptions:

Project Q is assumed to be funded on a pay-as-you-go basis.

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<sup>4</sup>Includes disbursements to the cities of Santa Ana and Stanton that were previously suspended. On May 13, 2019, the Board determined that the cities were ineligible to receive M2 revenues. Funds were suspended until the

cities achieved compliance. On April 13, 2020, based on compliance audit results, the Board determined the cities eligible to receive net M2 revenues again.

## **Q. Local Fair Share Program**

### **References:**

- M2 Eligibility Guidelines
- 2018 California Statewide Local Streets and Roads Needs Assessment
- OCTA's Comprehensive Business Plan
- Capital Funding Program Report – Local Road Project (July 2020)

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# NEXT 10

## DELIVERY PLAN

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### Transit Programs



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Metrolink Rail Station

updated 12.31.20

## **R** High Frequency Metrolink Service

- Metrolink Grade Crossing Improvements
- Station Improvement Project
- Planned Metrolink Station
- Laguna Niguel-San Juan Capistrano Passing Siding Project
- Sand Canyon Grade Separation Project

## **S** Transit Extensions to Metrolink

- OC Streetcar

## **T** Metrolink Gateways

- Anaheim Regional Transportation Intermodal Center (ARTIC)

## **U** Expand Mobility Choices for Seniors and Persons with Disabilities (countywide, not mapped)

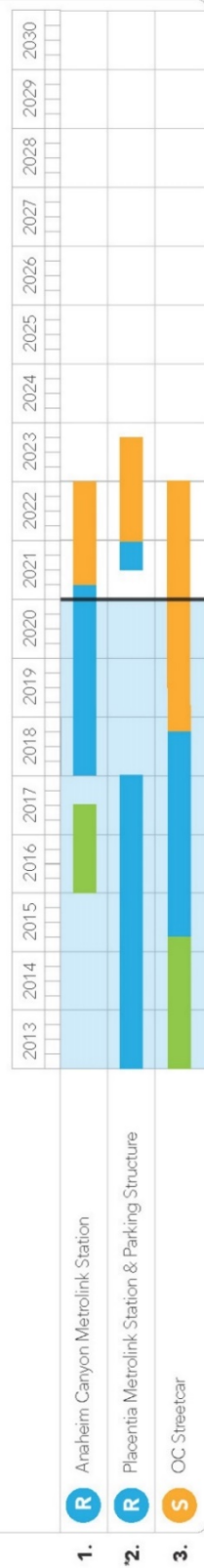
## **V** Community Based Transit/Circulators (countywide, not mapped)

## **W** Safe Transit Stops (countywide, not mapped)

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 DELIVERY PLAN

Environmental      Design/Advertise & Award      Construction

OC Go Transit Projects Through Construction



Please note that schedules are updated as of December 31, 2020. Shown schedules are subject to change.

\* The Placentia Metrolink Station's ability to move into construction is subject to a track sharing agreement with Burlington Northern Santa Fe Railway.

## Transit Program



### Overview:

The goal of the Transit Program is to build a visionary transit system that is safe, clean, and convenient, with a focus on Orange County's transportation future. Providing mobility choices and connectivity for Orange County residents and workers are key components of the overall M2 Plan. To meet this broad mobility goal, the Next 10 Plan includes the following framework for the Transit Program:

- Ensure efficient and integrated Metrolink service for Orange County residents.
- Assess and deliver transit options providing commuters last mile connections and alternatives to driving.
- Provide services and programs to meet the growing transportation needs of seniors and persons with disabilities.
- Support local agency efforts to deliver Board-approved community-based transit projects.
- Advance improvements to the busiest transit stops across the County to provide passenger amenities that ease transfers between bus lines.

### Next 10 Plan Deliverables:

The Next 10 Plan for transit recommends seven major initiatives through 2030, consistent with the above framework.

1. Complete two rail station improvements.
2. Sustain existing Metrolink service as an attractive alternative to driving in Orange County.
3. Complete construction and begin operating the OC Streetcar.
4. Incorporate recommendations from planning studies to guide development of future transit connections.
5. Support expanded mobility choices for seniors and persons with disabilities.
6. Work with local jurisdictions to maintain successful community circulator projects and potentially provide grant opportunities for expanded or new local transit services.
7. Continue to improve the top 100 busiest bus stops in Orange County.

## R. High Frequency Metrolink Service

### **Description:**

Project R provides for sustained and expanded rail service into Los Angeles and Orange Counties along the three Metrolink lines serving Orange County (Orange County, Inland Empire-Orange County, and 91/Perris Valley Lines). Project R also provides for safety and operational improvements to the railroad infrastructure necessary to support existing and expanded train service, including grade crossing improvements, track improvements, signal and communications system improvements, as well as other projects as necessary to support the rail system. Grade separation projects will be considered as available funding permits.

### **Program Cost:**

Approximately \$322 million between 2021 and 2030.

### **Status:**

To date, rail safety enhancements at 50 at-grade rail-highway crossings have been completed. As a result, quiet zones have been established in the cities of Anaheim, Dana Point, Irvine, Orange, San Clemente, San Juan Capistrano, Santa Ana, and Tustin.

Station improvements completed during the EAP include parking expansion projects at the Fullerton Transportation Center, Tustin Station, and Laguna Niguel/Mission Viejo Station, and safety repairs to the San Clemente Pier Station platform.

Since then, four station improvement projects have been completed: The San Clemente Pier Metrolink/ Amtrak Station lighting (March 2017), the Laguna

Niguel/Mission Viejo Metrolink Station Americans with Disabilities Act (ADA) ramps (September 2017), the Orange Transportation Center Parking Structure (February 2019), and the Fullerton Transportation Center elevator upgrades project (May 2019).

Two major rail station improvements are anticipated to be completed during the Next 10 Plan: Anaheim Canyon Metrolink Station improvement project and the Placentia Metrolink Station. Other rail station improvements underway include the detectable tile replacements at various stations and the stair replacement project at the Fullerton Transportation Center. Plans for the Anaheim Canyon Metrolink Station and a new Metrolink station in the City of Placentia have been completed. The Anaheim Canyon Metrolink Station project is anticipated to start construction in mid-2021. The new Placentia Metrolink Station project is pending a shared-use agreement between Metrolink and BNSF prior to advertisement and construction. There is no projected date for when this agreement will be completed at this time.

Completed rail corridor improvements include Control Point Stadium, the San Clemente Beach Trail Audible Warning System, Laguna Niguel to San Juan Capistrano Passing Siding, and six Project Study Reports for potential grade separations along the Los Angeles-San Diego-San Luis Obispo Rail (LOSSAN) corridor, including: Control Point at 4th Street, 17th Street, Ball Road, Grand Avenue, Main Street, Orangethorpe Avenue, and Santa Ana Boulevard.

## R. High Frequency Metrolink Service

Rail corridor improvements underway include: San Juan Creek Railroad Bridge Replacement, Railroad ROW Slope Stabilization Project, Metrolink Preventive Maintenance Capitalized Operation, Metrolink Rehabilitation/Renovation, and ongoing operation of Positive Train Control.

### **Present Day:**

In October 2019, four intracounty trips operating between Laguna Niguel/Mission Viejo and Fullerton were extended to Los Angeles. Further service changes were scheduled in April 2020 but were postponed due to COVID-19. The service changes are now anticipated in 2022 and will include the addition of one evening weekday round trip from Oceanside to Los Angeles on the Orange County Line.

Metrolink is currently operating 41 weekday trains in Orange County due to COVID-19 related service reductions; the plan is to restore service to 54 weekday trains following the pandemic. OCTA and partner agencies are working together with Metrolink and BNSF to implement improvements allowing expansion of service to Los Angeles. OCTA is coordinating with LOSSAN and its member agencies to continue to support improved service integration and coordination within the corridor.

### **Benefits:**

Project R allows for sustained operation and enhanced capacity of Metrolink trains serving Orange County, providing a viable alternative to single-occupant vehicle travel, thereby reducing

congestion on crowded roadways and freeways.

### **External Funding:**

State: STIP, Propositions 1A, 1B, and 116, and Transit and Intercity Rail Capital Program totaling \$285.80 million.

Federal: CMAQ, the Surface Transportation Block Grant Program, and FTA Sections 5307, 5309, and 5337, totaling \$450.96 million.

Other Local: Local funding from the cities as well as other entities is programmed for \$85.26 million.

M1 also provided \$136.58 million.

### **Risks:**

The lower sales tax revenue projections due to COVID-19 limit the ability to expand Metrolink service to Los Angeles. In addition, COVID-19 has greatly impacted Metrolink service. Depending on Metrolink ridership recovery projections and future service level assumptions, maintaining pre-COVID-19 service or expansion of service may no longer be feasible.

Outside of the Next 10 Plan but important to Metrolink operations is the undertaking by Metrolink of a major multi-year \$443.5 million systemwide rehabilitation program that, in addition to safety, will help improve system reliability and performance for commuters. This program needs to be funded over and above ongoing maintenance and operation costs.

### **Related Projects:**

Project S, Project T, and Project V.

## **R. High Frequency Metrolink Service**

### **Other Involved Agencies:**

BNSF, Caltrans, California Office of Emergency Services, California Public Utilities Commission (CPUC), California State Transportation Agency (CalSTA), Corridor Agencies, CTC, FTA, Los Angeles County Metropolitan Transportation Authority, Metrolink, RCTC, San Bernardino County Transportation Authority, and Ventura County Transportation Commission.

### **Assumptions:**

Funding and operating agreements with partner agencies will be successfully implemented.

### **References:**

- OCTA's Comprehensive Business Plan
- Capital Funding Program Report - Rail Project (July 2020)

## **S. Transit Extensions to Metrolink**

### **Description:**

Project S establishes a competitive program for local jurisdictions to broaden the reach of Metrolink to other Orange County cities, communities, and activity centers via transit, to connect passengers to their final destinations. With approximately 60 percent of Orange County's population and employment centers located within a four-mile radius of Metrolink stations, the emphasis of Project S is on expanding access to the core rail system and establishing connections to destinations that are not immediately adjacent to the Metrolink corridor, within the central core, north and south of Orange County. These connections may include a variety of transit technologies such as conventional bus or vanpool (Rubber Tire), bus rapid transit or high capacity rail transit systems (Fixed Guideways), as long as they can be fully integrated and provide seamless transition for the users.

### **Program Funding:**

Approximately \$296 million between 2021 and 2030 (for fixed guideways and rubber tire) in sales tax revenue.

### **Status:**

Fixed Guideway: Through a competitive process, one project (OC Streetcar) advanced beyond initial study. The OC Streetcar is in construction and will operate in the cities of Garden Grove and Santa Ana.

Rubber Tire: One call has been issued since 2012, providing approximately \$732,000 for four projects in the cities of Anaheim and Lake Forest. The City of Lake Forest has cancelled all three

projects. The City of Anaheim project successfully completed its grant on June 30, 2020 and is being funded on a go-forward basis through a subsequent Project V grant.

### **Present Day:**

Maintaining and growing Metrolink ridership relies on convenient and seamless bus and rail connections. Currently, OCTA fixed bus service and company shuttles are the prime providers of transit connections. However, Uber/Lyft paid-ridesharing services have been a growing presence.

### **Benefits:**

Project S will provide expanded transit access to the centralized Metrolink system, thereby allowing Metrolink commuters to connect to other parts of the County without using an automobile.

### **External Funding:**

Fixed Guideways: External funds for two preliminary studies for the cities of Anaheim and Santa Ana were funded with \$4.12 million in federal FTA Section 5307 and city local funds. M1 also provided \$18.71 million for preliminary studies.

The Board has approved funding supporting the OC Streetcar project, including \$25.59 million in contribution of state funds, and \$216.68 million in federal funds from federal CMAQ, FTA Section 5307 and 5309 and New Starts funding totaling \$242.26 million.

Rubber Tire: None. These projects are funded by M2 and local city matching funds.



## S. Transit Extensions to Metrolink

### **Risks:**

Overall schedule, scope, and cost risks are high with this project due to the extensive project scope.

### **Related Projects:**

Project R (High Frequency Metrolink Service), Project T, and Project V.

### **Other Involved Agencies:**

CalSTA, Caltrans, CPUC, CTC, FTA and local jurisdictions.

### **Assumptions:**

OC Streetcar: cities of Garden Grove and Santa Ana will provide their required match for operations.

Funding for a future call will be at the Board's discretion.

Rubber Tire: Future calls will be at the Board's discretion based on the level of interest from local jurisdictions but will likely be transitioned to Project V which provides for greater flexibility.

### **References:**

- M2 Eligibility Guidelines
- Project S Guidelines
- Federal 5307 and 5309 Funding Guidelines
- OCTA's Comprehensive Business Plan
- OC Streetcar Project Revised Funding Plan (July 2018)
- Capital Funding Program Report - Rail Project (July 2020)

## **T. Convert Metrolink Stations to Regional Gateways that Connect Orange County with High-Speed Rail Systems**

### **Description:**

Provide funding for local improvements to stations along the LOSSAN corridor in Orange County to facilitate connections to future high-speed rail systems, thereby ensuring Orange County's presence in the development and implementation of high-speed rail systems that will serve Orange County. One project, the Anaheim Regional Transportation Intermodal Center (ARTIC), moved forward to completion.

### **Cost:**

M2 contributed \$35.29 million of the \$225.53 million cost of the ARTIC project.

### **Status:**

As part of EAP efforts, OCTA held a competitive call in 2009 for eligible station cities for the development and implementation of station projects in preparation of future high-speed rail systems. The cities of Anaheim, Fullerton, Irvine, and Santa Ana were awarded funding for planning of major expansions of their Metrolink Stations. The City of Anaheim received environmental clearance for the ARTIC project in early 2012. The completed facility opened to rail and bus service on December 6, 2014.

On December 14, 2015, the Board amended the M2 Ordinance and Transportation Investment Plan to officially close out Project T by considering the completion of ARTIC as fulfilling the intent of Project T, as the only Orange County station on the planned High-Speed Rail route. The remaining balance of M2 funds were then transferred to two projects in need:

the Metrolink Service Expansion Program (part of Project R), and the Fare Stabilization Program for Seniors and Persons with Disabilities (part of Project U).

### **Present Day:**

In partnership with transportation agencies, corridor cities, and stakeholders, the California High-Speed Rail Authority in 2008 planned a High-Speed Rail system that was envisioned to extend as far north as Sacramento and as far south as San Diego with a connection in Anaheim. Work on the Central Valley segment from Bakersfield to Merced continues, however other areas of the system have been postponed.

### **Benefits:**

Early completion of Project T allowed for investment in Orange County's rail system to facilitate the planned ultimate integration of various high-speed rail systems within the County. The project relocated the prior rail station from leased land in the Los Angeles Angels of Anaheim parking lot, to its new permanent location as a multi-modal station for all transit riders.

### **External Funding:**

State: STIP totaling \$29.22 million.

Federal: CMAQ, Regional Surface Transportation Program, FTA Sections 5309 and 5337, FTA Bus Livability, and Highway Safety Improvement Program, totaling \$76.00 million.

## **T. Convert Metrolink Stations to Regional Gateways that Connect Orange County with High-Speed Rail Systems**

M1 also provided \$87.02 million of which \$32.50 million for ROW will be repaid plus interest by the City of Anaheim by 2025.

### **Risks:**

None – project completed.

### **Related Projects:**

California High-Speed Rail System.

### **Other Involved Agencies:**

California High-Speed Rail Authority, Caltrans, cities of Anaheim, Fullerton, Irvine, and Santa Ana, CTC, FTA, and Metrolink.

### **Assumptions:**

The California High-Speed Rail System will extend to the City of Anaheim as identified in their 2016 Business Plan.

### **References:**

- M2 Eligibility Guidelines
- Section 5309 and 5337 Funding Guidelines
- California High-Speed Rail 2016 Business Plan
- December 2017 Project Status Report
- Capital Funding Program Report - Rail Project (December 2017)

## U. Expand Mobility Choices for Seniors and Persons with Disabilities

### Description:

Project U provides funding for three programs to expand mobility choices for seniors and persons with disabilities.

The Fare Stabilization Program ensures that fares for seniors and persons with disabilities continue to be discounted at the same percentage as 2006 levels.

The SMP, administered by OCTA, was first established in 2001. For the first ten years, this program was supported with Transit Development Act funds. The allocation of Project U funding ensures the continuation of dedicated resources to sustain this program.

The SNEMT Program was established by the County of Orange in 2003, utilizing Tobacco Settlement Revenue (TSR) to fund the program. Project U funding supplements existing TSR resources to expand the capacity of the program and increase the number of available SNEMT trips.

### Program Funding:

Approximately \$116 million on a pay-as-you-go basis between 2021 through 2030.

### Status:

Fare Stabilization: In December 2015, the Board approved an amendment to the M2 Ordinance and Transportation Investment Plan that backfilled a funding shortfall identified in this program with

remaining Project T funds. Effective January 2016, an amendment to the M2 Ordinance adjusted this amount to 1.47 percent of net M2 revenues. With the amendment, projected Fare Stabilization revenues are expected to be solvent through the life of the M2 Program.

SMP: This program offers a variety of senior transportation resources for medical, nutrition, shopping, and social trips to participating cities. Currently, there are 31 cities which participate.

SNEMT: This program is administered by the County of Orange Office on Aging and is carried out by two transportation contractors. This program provides approximately 140,000 annual trips under Project U for non-emergency services such as trips to doctor and dental appointments, therapy, dialysis, and pharmacy visits.

As of December 2020, more than \$33.5 million has supported over 120 million trips through the Fare Stabilization Program, \$24.5<sup>5,6</sup> million provided 2.46 million trips through SMP, and \$26.6 million provided 978,249 trips through the SNEMT Program since the inception of M2.

### Present Day:

Studies of senior mobility needs have identified seniors' preference for utilizing local, community-based transportation

<sup>5</sup> Includes disbursements to the cities of Santa Ana and Stanton. On May 13, 2019, the Board determined that the cities were ineligible to receive M2 revenues. Funds were suspended until the cities achieved compliance. On April 13, 2020, based on compliance audit results, the Board determined the cities eligible to receive net M2 revenues again.

<sup>6</sup> Only includes disbursed funds. On October 12, 2020, the Board approved a temporary exception to the SMP guidelines, which allows OCTA to hold allocations in reserve for agencies with suspended services due to the COVID-19 pandemic. The funds will be held until the State lifts the State of Emergency or the agency resumes transportation services, whichever occurs first.

## **U. Expand Mobility Choices for Seniors and Persons with Disabilities**

services rather than countywide or regional services.

The SMP allows participating cities to identify the specific mobility needs of the seniors in their communities and develop transportation programs to best meet those needs with available funding.

The SNEMT Program fills a gap in senior transportation services, as trips are often provided to seniors who do not qualify for ACCESS service, or to seniors whose advanced age or disposition make it difficult to use ACCESS service. Contracting with social service agencies to provide SNEMT services allows this program to provide enhanced service elements beyond the requirements of ACCESS, a paratransit service that complements OCTA's fixed route bus service and is provided to comply with ADA.

### **Benefits:**

M2 funding of these programs, combined with OCTA ACCESS service and other senior transportation services funded with public and private resources, provide a menu of mobility options for Orange County seniors, allowing them to select the service that most appropriately meets their transportation need.

### **External Funding:**

Local jurisdictions contribute a 20 percent match to their SMP services. A variety of funding sources are used by cities for their SMP match requirement, including general fund, Community Development Block Grants, sponsorships, advertising revenue, and

administrative in-kind resources. The County of Orange utilizes primarily TSR funds to meet their maintenance of effort requirement.

### **Risks:**

Local jurisdictions must meet eligibility requirements and provide matching funds for SMP.

### **Related Projects:**

Not Applicable.

### **Other Involved Agencies:**

Nearly all local jurisdictions – Participating SMP cities include: Aliso Viejo, Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Dana Point, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Habra, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Newport Beach, Orange, Placentia, Rancho Santa Margarita, San Clemente, San Juan Capistrano, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda. The Orange County Office on Aging administers the SNEMT Program.

### **Assumptions:**

Project U is assumed to be funded on a pay-as-you-go basis.

### **References:**

- M2 Eligibility Guidelines
- Project U Funding and Policy Guidelines
- OCTA's Comprehensive Business Plan

## V. Community Based Circulators

### **Description:**

Project V provides funding to local jurisdictions through a competitive process to develop local bus transit services, such as community-based circulators, shuttles, and bus trolleys that complement regional bus and rail services and meet local needs in areas not adequately served by regional transit. Projects will need to meet performance criteria for ridership, connection to bus and rail services, and financial viability to be considered for funding.

### **Program Funding:**

\$100 million between 2021 through 2030.

### **Status:**

Since M2 inception, the Board has approved \$52 million for 35 projects (Note: service expansions and/or extensions from the 2018 & 2020 calls are counted as separate projects) and ten planning studies through four calls.

Out of the 35 projects awarded by OCTA: two are currently active, 21 are currently suspended (or not initiated) at this time due to COVID-19, nine have been cancelled (primarily due to low ridership), and three have been completed.

### **Present Day:**

Project V helps address the regularly-expressed need for local community-based transit service by Orange County communities.

### **Benefits:**

Community based circulators can provide relief to arterials in high traffic areas, and provide non-auto based mobility options that meet specific local needs.

### **External Funding:**

The local match requirement for both capital and any operating funds authorized by the Board is a minimum of ten percent.

### **Risks:**

Local jurisdictions must meet eligibility requirements to receive funding. Ability to sustain service will be key to moving projects forward. Continued social distancing requirements will also likely impact the ability of these services to re-initiate post-pandemic.

### **Related Projects:**

Project S (some Project S and V routes could serve dual purposes).

### **Other Involved Agencies:**

Participating local jurisdictions.

### **Assumptions:**

Project V is assumed to be funded on a pay-as-you-go basis.

### **References:**

- M2 Eligibility Guidelines
- Project V Guidelines
- OCTA's Comprehensive Business Plan

## W. Safe Transit Stops

### Description:

Project W provides funding for passenger amenities at the 100 busiest transit stops across Orange County. The intent is to assist bus riders in the ease of transfer between bus lines and provide passenger amenities.

### Program Funding:

\$10 million between 2021 through 2030.

### Status:

Since inception, the Board has approved over \$3.2 million for 122 stop improvements through three calls. To date, 43 stops have been completed and 71 stop improvements are either planned or underway. The remaining eight projects have been cancelled.

### Present Day:

High volume stops are eligible for funding providing needed passenger amenities commensurate with the volume of riders.

### Benefits:

Eligible improvements in locations where such amenities do not exist to enhance the customer experience. Improvements include enhancements such as sun/rain protection, passenger seating, improved lighting, etc.

### External Funding:

Minimal local match provided for design requests; the rest is 100 percent M2 funded up to the Project W funding caps. If over the cap, then additional local agency funds are required.

### Risks:

Local jurisdiction-initiated: Local jurisdictions are responsible for amenities at bus stops. Depending on the amenities selected, long-term maintenance and costs could be required.

### Related Projects:

Not Applicable.

### Other Involved Agencies:

Local jurisdictions with a top 100 busiest stop are eligible to receive these funds.

### Assumptions:

Project W is assumed to be funded on a pay-as-you-go basis.

### References:

- M2 Eligibility Guidelines
- Project W Guidelines
- OCTA's Comprehensive Business Plan

**2020**  
UPDATE

# **NEXT 10**

## **DELIVERY PLAN**

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### **Environmental Cleanup Program**









































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2020 UPDATE  
**NEXT100**  
 DELIVERY PLAN

Call for Projects  Call for Projects to be determined based on revenue flow 

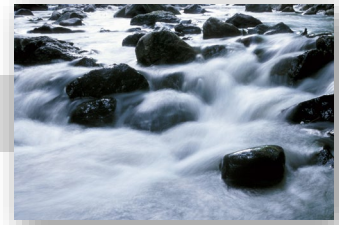
**OC Go Environmental Cleanup Grants and Call for Projects**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1.  Water Quality Call for Projects - Tier I																		
2.  Water Quality Call for Projects - Tier II																		

**Tier 1** grants program consists of funding for equipment purchases and upgrades to existing storm drains and related best management practices.

**Tier 2** grants program consists of funding for regional, potentially multi-jurisdictional, capital-intensive projects.

# Environmental Cleanup Program



## Overview:

The ECP (Project X) allocates approximately \$225 million toward improving overall water quality in Orange County from transportation related pollution. Project X was approved by Orange County voters under the M2 half-cent sales tax for transportation improvements in 2006.

To adhere to the promise of M2, the Next 10 Plan includes the following framework for Project X:

- Provide supplemental funds (not supplant) for existing transportation related water quality programs
- Allocate funds on a competitive basis to improve water quality standards in Orange County
- Reduce transportation-generated pollutants along Orange County's streets, roads and freeways
- Implement best management practices to improve runoff from streets, roads and freeways

Additionally, as part of the overall M2 Plan, all M2 capital projects (freeway, street, and transit) must include water quality mitigation as part of their respective project scope and cost. Therefore, this source of funding is not eligible for environmental mitigation efforts.

## Next 10 Plan Deliverables:

The Next 10 Plan for Project X recommends two major initiatives through 2030 consistent with the above framework:

1. Protect Orange County beaches by removing trash from entering waterways and inlets that ultimately lead to the ocean.
2. Work with the ECAC to develop the next tiers of water quality funding programs to prevent the flow of trash, pollutants and debris into waterways from transportation facilities. In addition, focus on improving water quality on a regional scale that encourages partnerships among the local agencies as part of Project X.

## X. Environmental Cleanup Program

### **Description:**

Project X implements street- and highway-related water quality improvement programs and projects that assist Orange County cities, the County of Orange and special districts in meeting federal Clean Water Act standards for urban runoff. Project X is intended to augment, not replace existing transportation-related water quality expenditures and to emphasize high-impact capital improvements over local operations and maintenance costs.

In May 2010, the Board approved a two-tiered approach to fund Project X. The Tier 1 grant program is designed to mitigate the more visible forms of pollutants, such as litter and debris that collect on roadways and in storm drains. Tier 1 consists of funding equipment purchases and upgrades to existing catch basins and related best management practices, such as screens and other low-flow diversion devices.

The Tier 2 grant program consists of funding regional, potentially multi-jurisdictional, and capital-intensive projects. Examples include constructed wetlands, detention/infiltration basins, and bioswales which mitigate pollutants such as heavy metals, organic chemicals, and sediment and nutrients.

### **Program Funding:**

\$79 million between 2021 and 2030.

### **Status:**

To date, the Board has awarded approximately \$27.4 million to fund 189 Tier 1 projects across the County through ten rounds of funding since M2 inception. An eleventh call anticipated to be released in early 2021 for approximately

\$2.8 million and programming recommendations are anticipated in summer 2021. The Board has also awarded approximately \$28 million for 22 Tier 2 projects in 12 cities and the County of Orange.

The 2020 Next 10 Plan will continue to commit to annual Tier 1 calls. The next Tier 2 call is anticipated in 2022, with future calls determined based on local jurisdiction interest and cash flow analysis.

### **Present Day:**

Staff estimates that over 33 million gallons (nearly 78 football fields at one-foot deep) of trash have been captured as a result of the installation of Tier 1 devices since the inception of the Tier 1 Program in 2011. As the equipment is in service over time, the volume of trash captured is expected to increase. The funded Tier 2 projects, once fully operational, have the potential to recharge 157 million gallons of groundwater annually.

### **Benefits:**

Improvements funded through this program will improve overall water quality in Orange County. Funds allocated on a countywide competitive basis will assist agencies in meeting federal Clean Water Act requirements for controlling transportation-generated pollution.

### **External Funding:**

Local jurisdictions are required to provide a 20 percent (Tier 1) and 50 percent (Tier 2) minimum local cash match. Tier 2 matching funds may be reduced, depending on project readiness and operations and maintenance above the ten-year minimum requirement.

## X. Environmental Cleanup Program

**Risks:**

Local jurisdictions must meet eligibility requirements and timely-use-of-funds provisions to M2 receive funding.

**Related Projects:**

Not Applicable.

**Other Involved Agencies:**

All local jurisdictions (cities and County of Orange). Third parties such as environmental organizations, homeowner's associations, non-profit groups, and water and wastewater public entities cannot be a lead agency applicant; however, they could jointly apply with an eligible applicant.

**Assumptions:**

Funds will be allocated on a countywide competitive basis to assist agencies with improving water quality related to transportation pollution.

**References:**

- M2 Eligibility Guidelines
- Project X Guidelines
- Tier 2 Grant Program Planning Study
- OCTA's Comprehensive Business Plan

**2020**  
UPDATE

# NEXT 10 DELIVERY PLAN

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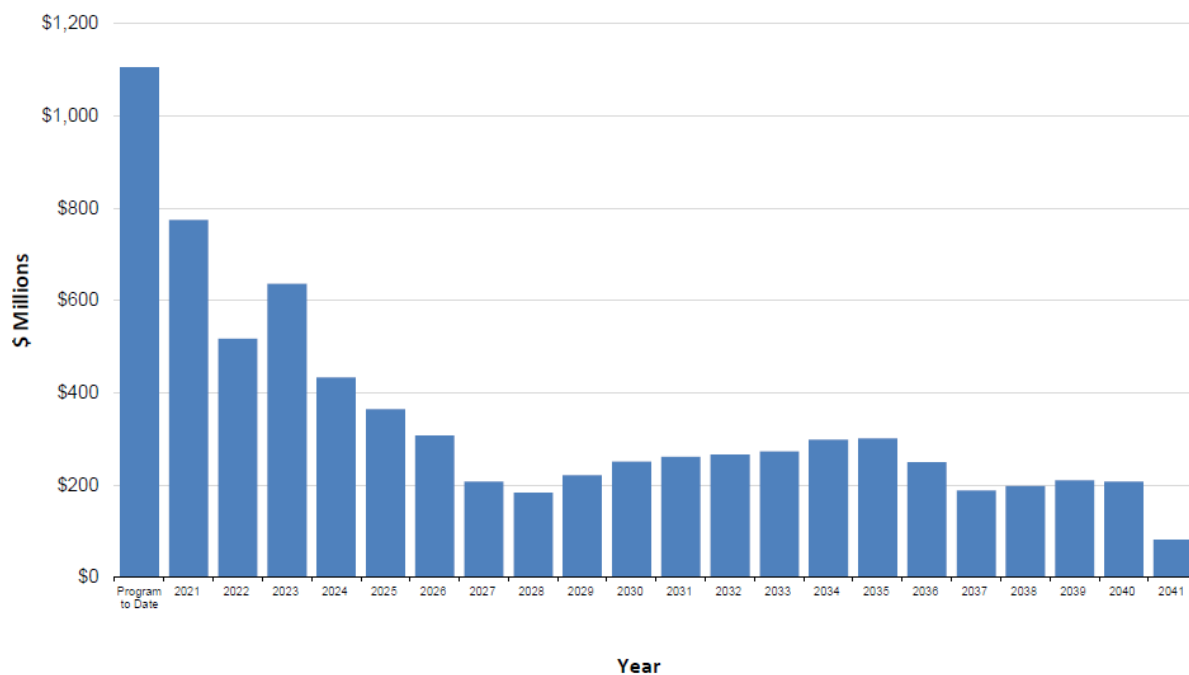
## Appendix

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## Next 10 Plan Funding Assumptions

To determine the status of the M2 Program, staff reviewed and updated cash flows for the Next 10 Plan for each of the program elements to test whether commitments provided to the voters as part of the M2 approval in November 2006 remain achievable. The revenue assumptions are based on the 2020 M2 revenue forecast of \$11.6 billion using the latest M2 revenue forecast methodology approved by the Board. The Next 10 Plan also assumes approved TIFIA proceeds, FFGA, and net excess 91 Express Lanes revenues for eligible projects as well as the availability of a viable amount of discretionary federal and/or state funds from 2020 to 2041. Revenues and expenses were merged into a high-level cash flow model that will be refined through a Plan of Finance. Bonding assumptions were updated to determine the need to address projected negative ending balances by year (compared to a pay-as-you-go scenario) and are constrained to minimum debt coverage ratios. An M2 cash flow summary chart showing ending balances in all years is shown below.

2020 Updated Next 10 Delivery Plan  
M2 Program Cash Balance



### Freeway Program

Revenues for the M2 Freeway Program assumed a proportional share (43 percent) of net M2 revenue. From inception to 2030, the Freeway Program would receive approximately \$2.58 billion in M2 revenue, \$1.07 billion in bond proceeds (includes \$495.4 million in prior bond proceeds), and \$1.59 billion in state/federal grants, \$108.9 million in committed proceeds, \$418.6 million in net excess 91 Express Lanes revenue for eligible projects, \$26.6 million in interest, and \$24.7 million transferred in



## Next 10 Plan Funding Assumptions

from M1 for a total of \$5.818 billion in total revenue. Costs for the same period total \$5.598 billion.

For the 2020 Next 10 Plan update, forecasted revenues and costs through 2041 were also tested for the complete M2 Freeway Program to ensure it could be delivered consistent with commitments. For projects currently in environmental or final design, project schedules and costs were based on data provided by OCTA's Project Controls Department. For projects that have not yet entered the environmental phase, conceptual estimates were prepared based on a scoring of congestion relief, project readiness, and cost escalation risks (associated with project delays). The 2020 update maintained just one bond issuance during the Next 10 Plan timeframe, although the amount increased by approximately \$275 million from the 2019 Next 10 Plan, and includes no others looking out to 2041. As always, bonding is constrained to legal debt coverage ratios, and a Plan of Finance is brought separately to the Board for approval as needed with refined bond assumptions.

As of December 2020, 12 of 30 freeway projects have been completed, as listed in the table below.

Completed M2 Freeway Projects		Construction Complete	Cost*
1. Project C, D	I-5, Avenida Pico to Avenida Vista Hermosa/Avenida Pico Interchange	2018	\$83.6
2. Project C	I-5, Avenida Vista Hermosa to PCH	2017	\$75.2
3. Project C	I-5, PCH to San Juan Creek Road	2018	\$74.3
4. Project D	I-5, Ortega Highway Interchange	2016	\$79.7
5. Project E	SR-22 Access Improvements at Euclid Street, Brookhurst Street, and Harbor Boulevard	2008	M1\$'s
6. Project G	SR-57 Northbound, Katella Avenue to Lincoln Avenue	2015	\$38.0
7. Project G	SR-57 Northbound, Orangethorpe Avenue to Yorba Linda Boulevard	2014	\$52.3
8. Project G	SR-57 Northbound, Yorba Linda Boulevard to Lambert Road	2014	\$54.1
9. Project H	SR-91 Westbound, I-5 to SR-57	2016	\$59.2
10. Project I	SR-91 Westbound, Tustin Avenue Interchange to SR-55	2016	\$42.5
11. Project J	SR-91 SR-55 to SR-241	2013	\$79.7
12. Project J	SR-91 Eastbound, SR-241 to SR-71	2011	\$57.8
		<b>Total</b>	<b>\$696.4</b>

\* Cost in millions

## Next 10 Plan Funding Assumptions

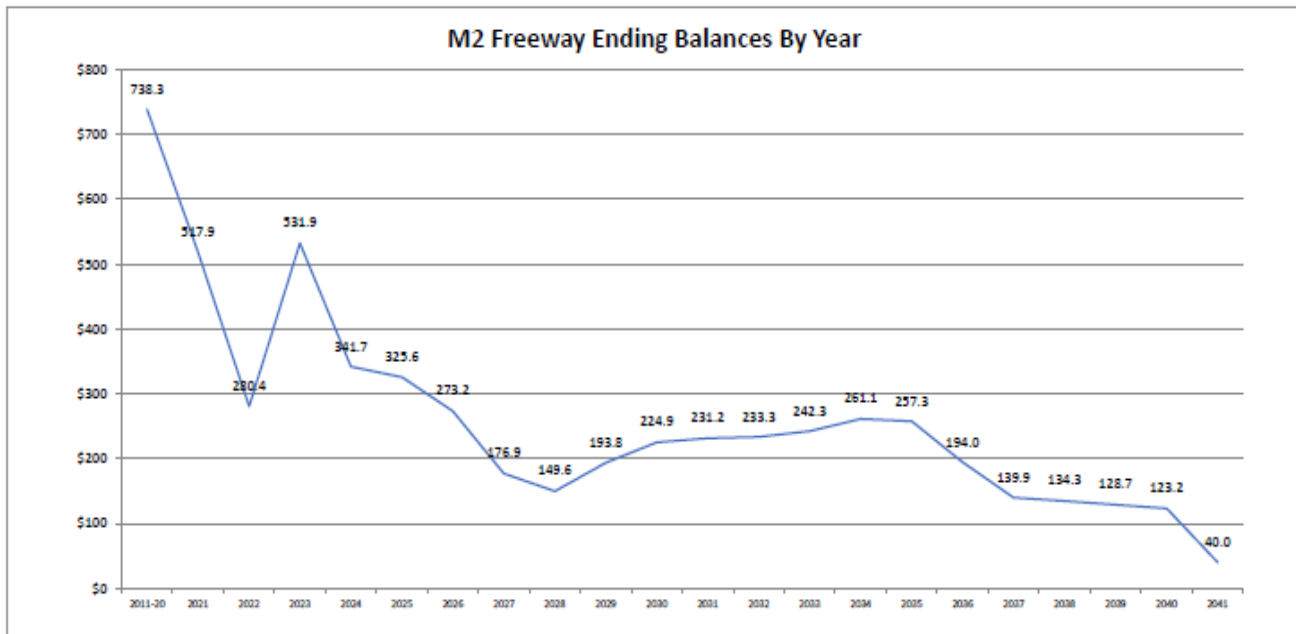
2020 UPDATE



### 2020 Next 10 Update - M2 Freeway Program Revenues, Estimated Costs, and Ending Balances

(Millions of Dollars; Year of Expenditure)

	M2 Projected Revenue <b>A</b>	Programmed Other Revenue <b>B</b>	Estimated Costs (YOE) <b>C</b>	Project Revenues - Costs <b>D = A + B - C</b>
Project A (I-5, SR-55 to SR-57)	\$ 436.9	\$ 36.2	\$ 39.7	\$ 433.4
Project B (I-5, SR-55 to "Y")	\$ 279.1	\$ 170.1	\$ 430.9	\$ 18.3
Project C (I-5, South of "Y")	\$ 582.8	\$ 445.2	\$ 810.2	\$ 217.9
Project D (I-5 interchanges)	\$ 239.8	\$ 84.3	\$ 200.3	\$ 123.8
Project E (SR-22 access improvements)	\$ 111.5	\$ -	\$ -	\$ 111.5
Project F (SR-55 improvements)	\$ 340.2	\$ 428.2	\$ 634.5	\$ 133.9
Project G (SR-57 improvements)	\$ 240.5	\$ 107.4	\$ 428.5	\$ (80.7)
Project H (SR-91, I-5 to SR-57)	\$ 130.1	\$ 27.2	\$ 59.2	\$ 98.1
Project I (SR-91, SR-57 to SR-55) <sup>1</sup>	\$ 387.2	\$ 455.3	\$ 468.0	\$ 374.4
Project J (SR-91, SR-55 to OC/RC line) <sup>1</sup>	\$ 327.4	\$ 430.0	\$ 437.5	\$ 319.9
Project K (I-405, I-805 to SR-55) <sup>2</sup>	\$ 997.2	\$ 244.3	\$ 1,560.2	\$ (318.6)
Project L (I-405, SR-55 to I-5)	\$ 297.2	\$ 8.0	\$ 282.4	\$ 42.8
Project M (I-805 access improvements)	\$ 18.6	\$ -	\$ 29.0	\$ (10.4)
Project N (Freeway Service Patrol)	\$ 139.4	\$ -	\$ 138.5	\$ 1.0
Mitigation Program @ 5%	\$ 238.3	\$ -	\$ 206.0	\$ 32.3
Transfer from M1 Savings		\$ 20.0		\$ 20.0
Interest Earnings		\$ 26.6		\$ 26.6
Bond Interest Costs <sup>3</sup>			\$ 543.0	\$ (543.0)
Other Non-Programmed Revenue		\$ 7.7		\$ 7.7
Freeway Program Economic Uncertainties			\$ 969.0	\$ (969.0)
<b>Subtotal M2 Revenues and Costs:</b>	<b>\$ 4,766.4</b>	<b>\$ 2,490.6</b>	<b>\$ 7,216.9</b>	<b>\$ 40.0</b>
<b>2041 Projected Balance:</b>				<b>\$ 40.0</b>



<sup>1</sup> \$691.8 million in 91 Express Lanes excess revenue has been incorporated into Other Revenues for portions of Project I (currently assumed at \$418.6 million) and Project J (currently assumed at \$273.2 million).

<sup>2</sup> \$108.9 million has been incorporated into Other Revenues for Project K. This is a direct benefit to the M2 portion of the I-405 Improvement Project, as the loan will with toll revenues and not M2.

<sup>3</sup> Total debt service less bond proceeds.

## Next 10 Plan Funding Assumptions

### Streets and Roads

The M2 Streets and Roads Program consists of Project O (RCP), Project P (RTSSP), and Project Q (LFS). Combined M2 revenues for these programs assume a proportional share (32 percent) of net M2 revenue. From inception to 2030, the Streets and Roads Program would receive approximately \$1.918 billion in M2 revenue, \$33.9 million in interest, \$121.6 million in prior bond proceeds, and \$607.9 million in M1 and state/federal grants (primarily for the OC Bridges Program), for a total of \$2.681 billion in total revenue. This includes \$6.9 million in SB 1 funding leveraged for Project P. Costs for the same period would total approximately \$2.673 billion (including debt service payments against prior bonding).

Part of Project O includes the OC Bridges Program, which funded seven over- or underpass grade separations that eliminated car and train conflicts along the BNSF Railway in northern Orange County. These grade separations, listed in the table below, increased safety for everyone traveling through the intersections and eliminate delays caused by trains.

Completed OC Bridges – Grade Separation Projects		Construction Complete	Cost*
1. Project O	Kraemer Boulevard (Placentia)	2014	\$63.8
2. Project O	Placentia Avenue (Placentia)	2014	\$64.5
3. Project O	Orangethorpe Avenue (Anaheim/Placentia)	2016	\$105.9
4. Project O	Tustin Avenue/Rose Drive (Anaheim/Placentia)	2016	\$96.6
5. Project O	Lakeview Avenue (Anaheim/Placentia)	2017	\$110.7
6. Project O	Raymond Avenue (Fullerton)	2018	\$126.2
7. Project O	State College Boulevard (Fullerton)	2018	\$99.6
<b>Completed OC Bridges – Grade Separation Projects Total</b>			<b>\$667.3</b>

\*Cost in millions

## Next 10 Plan Funding Assumptions



### Transit Program

The M2 Transit Program consists of Project R (High Frequency Metrolink Service), Project S (Transit Extensions to Metrolink), Project T (Metrolink Gateways), Project U (Seniors/Disabled Persons Mobility Programs), Project V (Community Based Transit/Circulators), and Project W (Safe Transit Stops). Revenues for the M2 Transit Program assume a proportional share (approximately 25 percent) of net M2 revenue. From inception to 2030, the Transit Program would receive approximately \$1.498 billion in M2 revenue, \$51.7 million in prior bond proceeds, \$453 million in external revenue, \$45.6 transferred from M1, and \$14.4 million in interest for a total of \$2.063 billion. Expenses for this same time period total \$2.042 billion (including debt service payments against prior bonding). The cash flow includes \$148.96 million in Federal New Starts funding, \$85.47 million in federal CMAQ, and \$25.52 million in State Cap-and-Trade for the OC Streetcar project. The unprogrammed balance for Project S allows for the option of an additional future transit connection project.

### Environmental Cleanup Program

The M2 ECP consists of Project X (Cleanup Highway and Street Runoff that Pollutes Beaches). Revenues for the M2 ECP assume two percent of gross annual M2 sales tax revenue. From inception to 2030, the ECP would receive approximately \$118.6 million in M2 revenue. Expenses for this same time period total \$119.5 million.

## Common Abbreviations



Americans with Disabilities Act	ADA
Anaheim Regional Transportation Intermodal Center	ARTIC
Board of Directors	Board
Burlington Northern Santa Fe	BNSF
California Department of Fish and Wildlife	CDFW
California Department of Transportation	Caltrans
California Public Utilities Commission	CPUC
California State Transportation Agency	CalSTA
California Transportation Commission	CTC
Call for Projects	Call
Congestion Mitigation and Air Quality	CMAQ
Conservation Properties	Preserves
Coronavirus	COVID-19
Early Action Plan	EAP
Environmental Cleanup Allocation Committee	ECAC
Environmental Cleanup Program	ECP
Environmental Impact Report	EIR
Environmental Impact Statement	EIS
Environmental Mitigation Program	EMP
Federal Highways Administration	FHWA
Federal Transit Administration	FTA
Fire Management Plan	FMP
Fiscal Year	FY
Freeway Service Patrol	FSP
Full Funding Grant Agreement	FFGA
High-Occupancy Vehicle	HOV
Infrastructure Construction Cost Index	ICCI
Interstate 15	I-15
Interstate 405	I-405
Interstate 5	I-5
Interstate 605	I-605
Local Fair Share	LFS
Los Angeles-San Diego-San Luis Obispo	LOSSAN
Master Plan of Arterial Highways	MPAH
Measure M	M1
Measure M2 or Renewed Measure M	M2
Natural Community Conservation Plan/Habitat Conservation Plan	Conservation Plan
Next 10 Delivery Plan	Next 10 Plan
Orange County Business Council	OCBC
Orange County Transportation Authority	OCTA
M2 Ordinance No. 3	M2 Ordinance
Pacific Coast Highway	PCH
Regional Capacity Program	RCP

## Common Abbreviations

Regional Traffic Signal Synchronization Program	RTSSP
Resource Management Plan	RMP
Right-of-Way	ROW
Riverside County Transportation Commission	RCTC
Senate Bill 1	SB 1
Senior Mobility Program	SMP
Senior Non-Emergency Medical Transportation	SNEMT
Service Authority for Freeway Emergencies	SAFE
State Highway Account	SHA
State Route 133	SR-133
State Route 22	SR-22
State Route 241	SR-241
State Route 55	SR-55
State Route 57	SR-57
State Route 71	SR-71
State Route 73	SR-73
State Route 74	SR-74
State Route 91	SR-91
State Transportation Improvement Program	STIP
State Water Resources Control Board	SWRCB
Tobacco Settlement Revenue	TSR
Transportation Infrastructure Finance and Innovation Act	TIFIA
United States Army Corps of Engineers	USACE
United States Fish and Wildlife Service	USFWS
Year of Expenditure	YOE

**2020 Updated Next 10 Delivery Plan – Ten Balanced Deliverables****Freeways**

1. Deliver 14 improvement freeway projects through construction (Projects A-M).

<b>In Construction</b>		<b>Construction Complete</b>
Project A	Interstate 5 (I-5) between State Route 55 (SR-55) and State Route 57 (SR-57)	2021
Project C, D	I-5 between State Route 73 (SR-73) and Oso Parkway/Avery Parkway Interchange	2025
Project C, D	I-5 between Oso Parkway and Alicia Parkway/La Paz Interchange	2023
Project C	I-5 between Alicia Parkway and El Toro Road	2024
Project K	Interstate 405 (I-405) between SR-73 and Interstate 605 (I-605)	2024
<b>In Design</b>		
Project F	SR-55 between I-405 and I-5	2026
Project I	State Route 91 (SR-91) between SR-55 and Lakeview Avenue	2027
Project I	SR-91 between La Palma Avenue and SR-55	2028
Project I	SR-91 between Acacia Street and La Palma Avenue	2028
Project M	I-605 Katella Avenue Interchange	2025
<b>In Environmental</b>		
Project B	I-5 between I-405 and Yale Avenue	2029
Project B	I-5 between Yale Avenue and SR-55	2028
Project F	SR-55 between I-5 and SR-91	2029
Project G	SR-57 Northbound from Orangewood Avenue to Katella Avenue	2026

2. Prepare remaining freeway improvement projects for delivery.

<b>Remaining Projects</b>		<b>Environmental Clearance/Shelf-Ready</b>
Project D	I-5/El Toro Road Interchange	2021
Project G	SR-57 Northbound from Lambert Road to Tonner Canyon Road	2024
Project J	SR-91 between State Route 241 and Interstate 15	2030
Project L	I-405 between I-5 and SR-55	2018

## **2020 Updated Next 10 Delivery Plan – Ten Balanced Deliverables**

### **Streets and Roads**

3. Provide annual competitive funding opportunities for local jurisdictions to address bottlenecks and gaps in the street system, synchronize signals (Project O and Project P), and continue flexible funding to local jurisdictions to preserve the quality of streets or for use on other transportation needs, as appropriate (Project Q).

### **Transit**

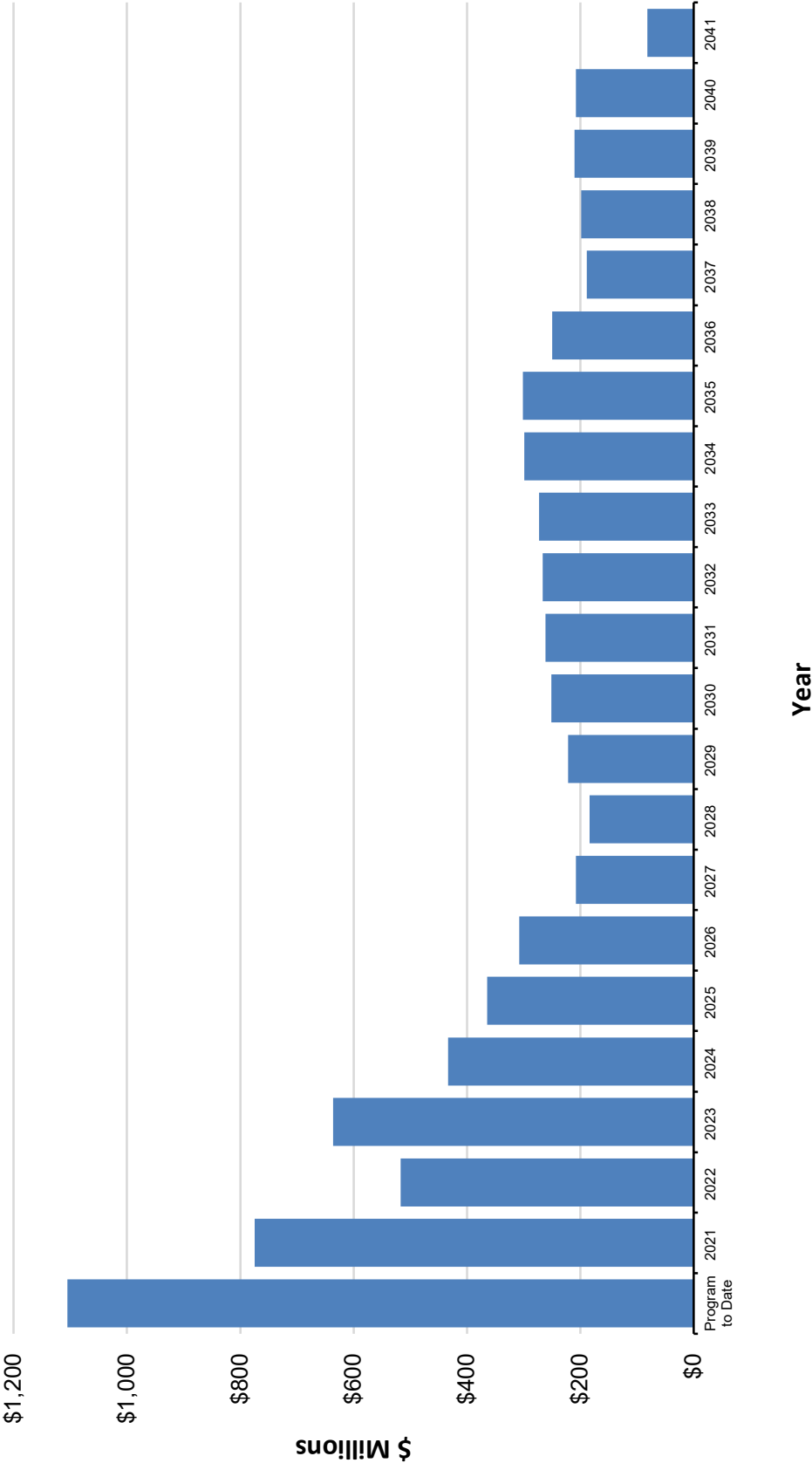
4. Maintain Metrolink service and complete two rail station improvements (Project R).
5. Complete construction, secure vehicles, begin operating the OC Streetcar, and work with local jurisdictions to consider recommendations from planning studies to guide development of future high-quality transit connections (Project S).
6. Support expanded mobility choices for seniors and persons with disabilities (Project U).
7. Work with local jurisdictions to maintain successful community circulator projects and potentially provide grant opportunities for expanded or new local transit services (Project V).
8. Continue to improve the top 100 busiest transit stops to enhance the customer experience (Project W).

### **Environmental**

9. Ensure the ongoing preservation of purchased open space which provides comprehensive mitigation of the environmental impacts of freeway improvements and higher-value environmental benefits in exchange for streamlined project approvals (Projects A-M).
10. Work with the Environmental Cleanup Allocation Committee to develop the next tiers of water quality programs to prevent the flow of trash, pollutants and debris into waterways from transportation facilities. In addition, focus on improving water quality on a regional scale that encourages partnerships among the local agencies as part of the Environmental Cleanup Program (Project X).



2020 Updated Next 10 Delivery Plan  
M2 Program Cash Balance



# Measure M2

2020 UPDATE

# NEXT 10 DELIVERY PLAN

# M2 Delivery Plans

- Purpose

- Confirm promised projects can be delivered
- Ensure financial sustainability
- Mobilize projects and benefits earlier
- Minimize cost escalation risks
- Position projects to leverage external funding



- Work to date

- ✓ Early Action Plan - adopted in 2007 (five-year mobilization plan)
- ✓ M2020 - adopted in 2012 (eight-year plan – replaced mid-stream)
- ✓ Next 10 Plan - adopted in 2016 (ten-year plan)
  - ✓ Annual updates in 2017, 2018, and 2019

# M2 Accomplishments to Date

- Freeways
  - ✓ 12 projects completed
  - ✓ 1,300 acres of open space preserved and another 350 acres restored
- Streets and Roads
  - ✓ 155 projects to make streets work better
  - ✓ 3,000 signals coordinated to reduce stop & go traffic
  - ✓ \$476 million distributed to local jurisdictions for transportation improvements
- Transit
  - ✓ Ongoing Metrolink service and five station projects completed
  - ✓ Safety enhancements at 50 railroad grade crossings
  - ✓ OC Streetcar under construction
  - ✓ \$85 million for mobility of seniors and persons with disabilities
  - ✓ 26 community circulator services
- Environmental
  - ✓ 196 water quality projects



# M2 Sales Tax Revenue Forecast

- Updated 2020 forecast is \$11.6 billion
  - ↓ \$1.8 billion less than the 2019 forecast
- Most areas of M2 Plan scale to available revenue
- Freeway Program cannot scale due to set scopes
  - ↑ Cost increase - \$244 million
  - ↓ Revenue loss - \$747 million



## ENVIRONMENTAL



A total of 5% of OC Go Freeway Program funds is allocated to the Freeway Environmental Mitigation Program



A total of 2% of the overall OC Go Program funds is allocated to the Environmental Cleanup Program

# Next 10 Plan Update

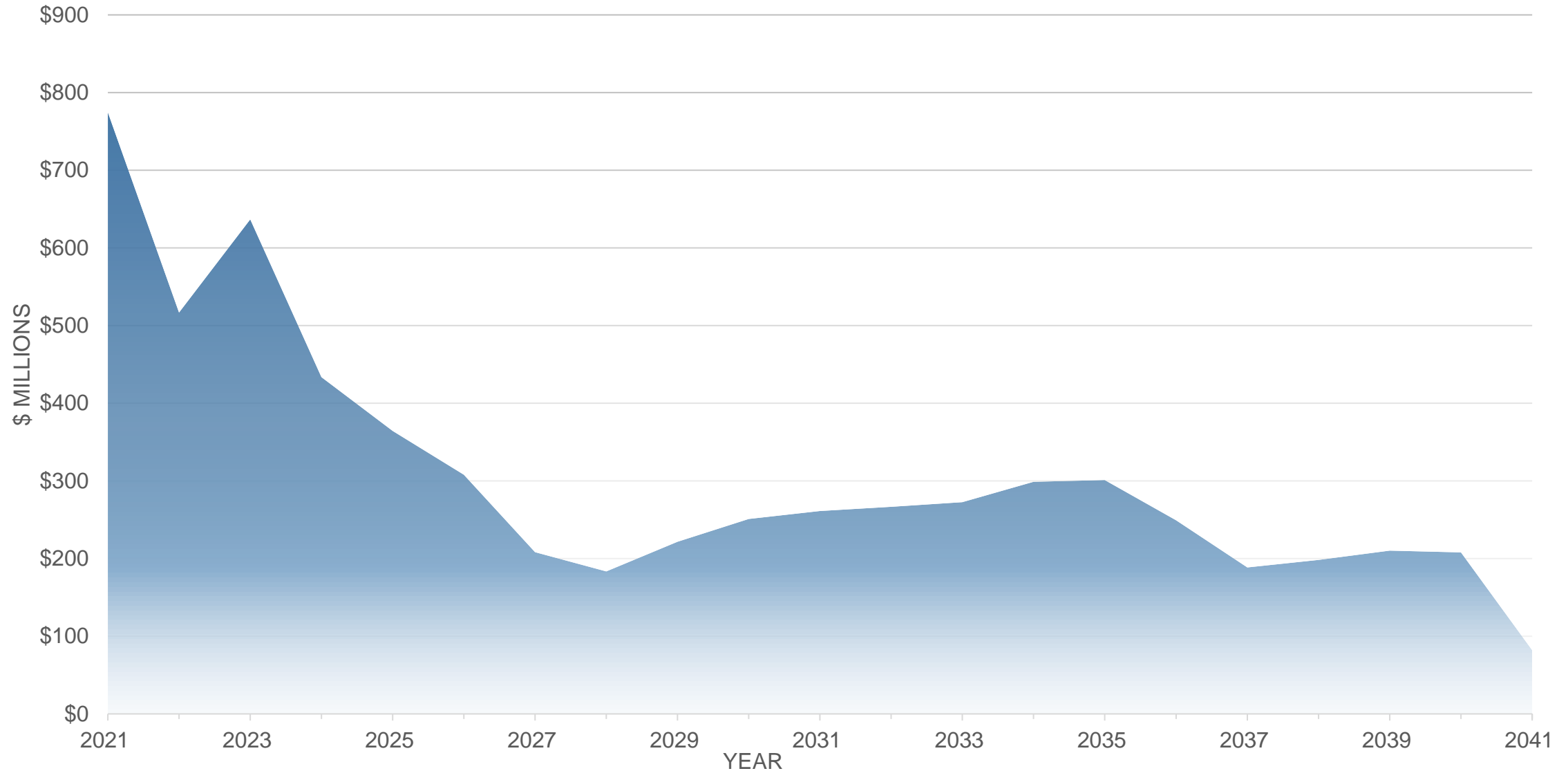
- Options to move forward – December 2020
  - Maintain momentum on project delivery and manage bonding levels
  - Adjust Next 10 Plan horizon from FY 2017-2026 to FY 2021-2030
  - Review Q2 M2 revenue receipts prior to update
- Information on M2 Revenue Collections – March 2021
  - ✓ Q2 M2 revenue receipts consistent with forecasts
  - ✓ On track to generate \$11.6 billion in gross M2 revenues



- Cashflow assumes:
  - \$11.6 billion in M2 revenues
  - \$3.6 billion in external revenues
- Assumes one bond issuance of \$575 million in 2023
- Minimum debt service coverage ratio of 3.6x
- Minimum cash balance of \$183 million through 2040
- Cash balance of \$82 million at the end of the program in 2041

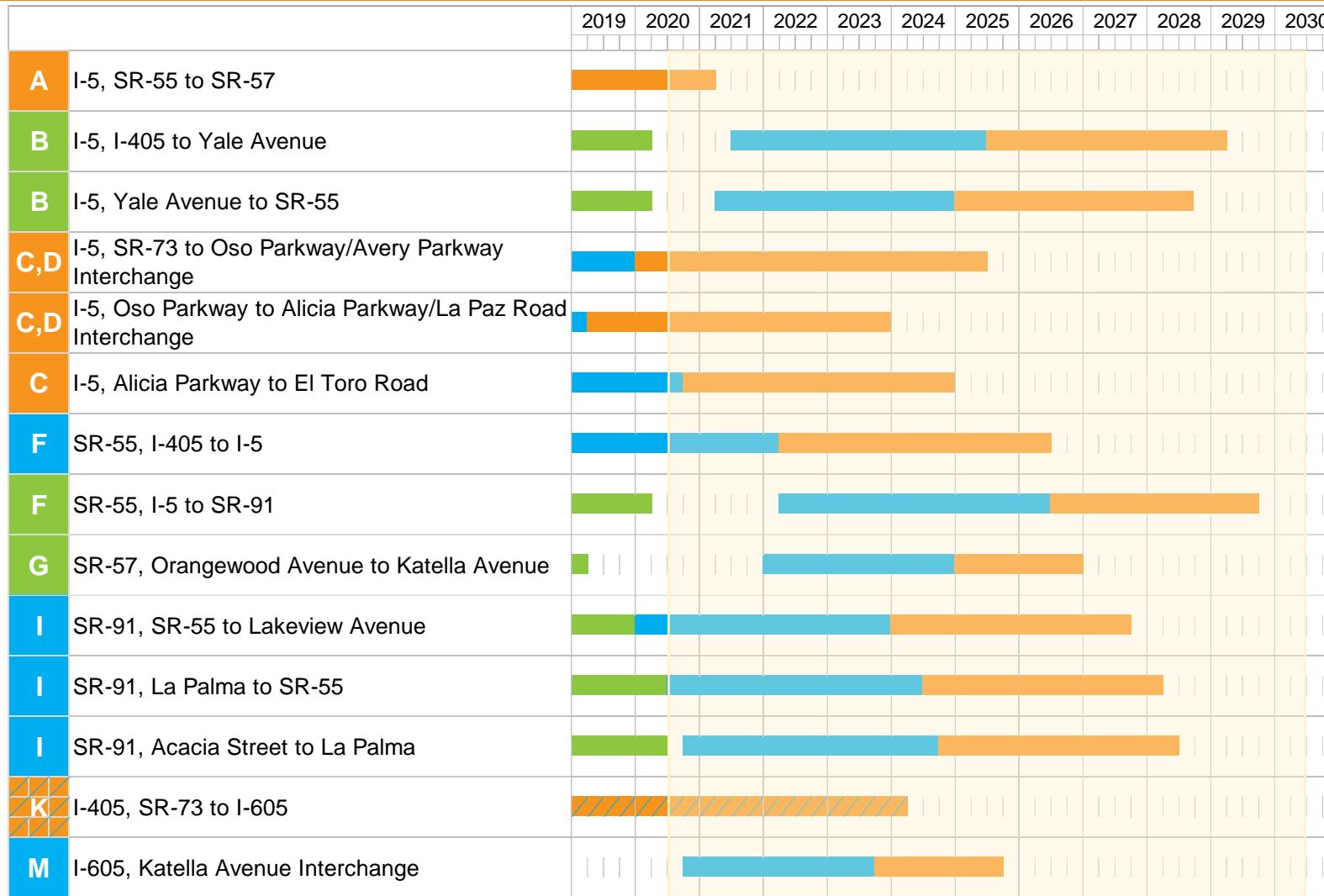


# M2 Program Cash Balance





# M2 Freeway Program



- 14 freeway projects to be delivered in Next 10 Plan timeframe

- Four remaining freeway projects to be reassessed during annual review

**I-5 – Interstate 5**  
**SR-55 – State Route 55**  
**SR-57 – State Route 57**  
**I-405 – Interstate 405**  
**SR-73 – State Route 73**  
**SR-91 – State Route 91**  
**I-605 – Interstate 605**



Environmental



Design, Advertise, and Award



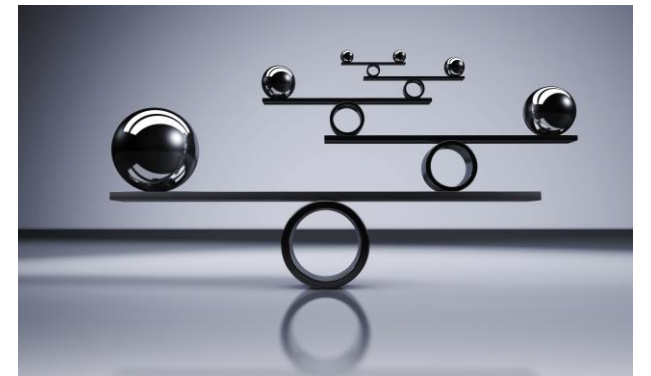
Design-Build



Construction

# Next 10 Deliverables Summary

- Freeways
  - Delivers 14 freeway projects
  - Continues annual endowment deposits
- Streets and Roads
  - Returns 18 percent to local agencies for transportation needs
  - Provides annual grants to address street bottlenecks and gaps
  - Funds ongoing coordination of 2,200 traffic signals
- Transit
  - Operations of Metrolink and station improvements
  - Begins operation of OC Streetcar
  - Enhances mobility for seniors and persons with disabilities
  - Continues support for localized transit options
- Environmental
  - Provides for annual water cleanup grants



- Distribute the updated Next 10 Plan to local jurisdictions and stakeholders
- Work with transportation partners on delivery of the Next 10 Plan
- Monitor the risks associated with the changing environment and return to the Board of Directors with updates as appropriate





**April 5, 2021**

**To:** Executive Committee

**From:** Darrell E. Johnson, Chief Executive Officer

**Subject:** Proposed Amendment to the Orange County Local Transportation Authority Measure M2 Ordinance No. 3

### **Overview**

The voter-approved Measure M2 Ordinance No. 3 requires that local jurisdictions meet a maintenance of effort requirement to remain eligible to receive Measure M2 funding. Local jurisdictions are continuing to experience uncertainties in general fund revenues due to the coronavirus pandemic, which is anticipated to impact their ability to meet the maintenance of effort requirement. In response to these impacts, the Board of Directors approved an amendment to the Measure M2 Ordinance No. 3 in June 2020 to provide flexibility on this requirement through fiscal year 2020-21. An amendment to extend the revised maintenance of effort requirement through fiscal year 2021-22 is proposed to continue assisting local jurisdictions through this period of economic uncertainty.

### **Recommendations**

- A. Direct staff to initiate the process to amend the Orange County Local Transportation Authority Measure M2 Ordinance No. 3 to extend the fiscal year 2020-21 revised maintenance of effort requirement into fiscal year 2021-22 to continue assisting local jurisdictions through this period of economic uncertainty.
- B. Direct staff to set a date of May 24, 2021, for a public hearing and Board of Directors' action to consider adoption of the amendment to the Orange County Local Transportation Authority Measure M2 Ordinance No. 3 as it relates to the maintenance of effort requirement.

### **Background**

In November 2006, Orange County voters approved the Renewed Measure M Ordinance No. 3 (Measure M2 {M2} Ordinance), also called M2. The

Orange County Transportation Authority (OCTA) is committed to fulfilling the commitments made in M2. This means delivering all projects and programs included in the M2 Transportation Investment Plan (Plan) and complying with the specific requirements identified in the M2 Ordinance. Included in the M2 Ordinance is an amendment process to address unforeseen circumstances.

Local jurisdictions are required to meet specific requirements in order to receive M2 revenues, one of which is related to maintenance of effort (MOE) spending levels. MOE is the amount a local jurisdiction spends in discretionary non-transportation funds, or general fund revenues (GFR), for streets and roads purposes. The intent of this requirement is to ensure that M2 revenues do not supplant funding for streets and roads that a local jurisdiction was previously spending. This requirement must be met each year in order for a local jurisdiction to receive net M2 disbursements.

The original MOE level was established in 1991 with the first Measure M (M1) Program using a five-year average of the funding amount local jurisdictions spent on streets and roads maintenance and construction between 1985 and 1990. The MOE amount remained unchanged during the 20-year life of M1; therefore, it did not keep pace with annual inflation. Recognizing the need for an adjustment, a process was included in the M2 Ordinance to update the MOE amount every three years. The adjustment is determined by utilizing the California Department of Transportation construction cost index growth during a three-year period and applying that growth rate to the MOE, with the exception that the increase cannot be greater than the jurisdiction's increase in GFR for the same period. The most recent adjustment approved by the OCTA Board of Directors (Board) on April 13, 2020, is only the third adjustment to the original MOE as established under M1, and this established MOE benchmark will be used through fiscal year (FY) 2022-23.

### ***Discussion***

The M2 Ordinance requires jurisdictions to annually submit two items to OCTA related to MOE:

- 1) MOE certification - before the start of the annual FY budget, local jurisdictions must certify that sufficient expenditures have been budgeted to meet the MOE benchmark.
- 2) Expenditure report - annually, local jurisdictions must submit a detailed financial report. This report is used to validate eligible uses of M2 funds and to report actual MOE expenditures to meet the MOE benchmark requirement.

These requirements, outlined in Section 6 of the M2 Ordinance, and in Section III of Attachment B to the M2 Ordinance, must be met in order for local jurisdictions to continue to receive M2 revenues.

The M2 Ordinance allows for amendments for unforeseen circumstances, which is noted and further discussed in Section 12 of the M2 Ordinance. A specific process for amendments was established by the Board during M1 and has continued with M2. Amendments to the M2 Ordinance, which do not affect the Plan, require a two-thirds vote from the Board, as well as a public hearing and notification process.

As the state designated Local Transportation Sales Tax Authority responsible for administering M2, OCTA is committed to upholding the intent of the M2 Ordinance. As such, amendments are not a normal occurrence and should only be proposed when warranted by unforeseen circumstances, as in the case of the current economic impacts of the health pandemic. Over the last 30 years, between both M1 and M2, there have only been five ordinance amendments. During this same period, there have been ten Plan amendments. Ordinance amendments are corrective changes in nature, versus Plan amendments, which address funding adjustments within the same mode. Attachment A provides information on the amendment process, the language on amendments from the M2 Ordinance, and a history of prior amendments.

In June 2020, the Board, through the process described above approved an amendment to the M2 Ordinance to revise MOE requirements for FY 2019-20 and FY 2020-21 in anticipation of near-term negative growth due to the coronavirus (COVID-19) pandemic. For FY 2019-20, local jurisdictions reported actual MOE expenditures, which could be below the MOE benchmark. For FY 2020-21, local jurisdictions were given the option of meeting either the MOE benchmark or a proportional MOE calculation. The proportional calculation used the local jurisdiction's MOE benchmark compared to GFR, as reported in local jurisdictions' FY 2018-19 Comprehensive Annual Financial Reports. This option allowed local jurisdictions to scale the MOE requirement with fluctuations in their GFR in FY 2020-21.

The latest M2 sales revenue forecast, presented to the Board in October 2020, does not reflect a return to pre-pandemic revenue levels in FY 2021-22. Accordingly, the local jurisdictions may be challenged with satisfying the MOE requirement for FY 2021-22, which reverts to the MOE benchmark. In addition, several local jurisdictions have expressed support for the MOE flexibility offered in FY 2020-21 to be extended through FY 2021-22.

For these reasons, staff is recommending an M2 Ordinance amendment to extend the option for local jurisdictions to use the FY 2020-21 proportional MOE calculation for FY 2021-22. The proposed amendment language is provided in Attachment B. This change is not expected to be extended further, and the MOE will revert to the benchmark in FY 22-23.

The process and timing for amending the M2 Ordinance and MOE submittals is shown below:

Actions	Date
OCTA Executive Committee considers M2 amendment	April 5, 2021
Board considers M2 Eligibility Guidelines FY 2021-22	April 12, 2021
Board considers M2 amendment and sets a public hearing date for June 14, 2021	April 12, 2021
Proposed amendment sent to local jurisdictions for public review prior to public hearing	April 13 - 16, 2021
Taxpayers Oversight Committee provided an update on ordinance amendment	April 13, 2021
Issue public hearing notice (at least 30 days prior to public hearing)	April 13 - 18, 2021
Public hearing on amendment and roll call vote by Board (requires two-thirds vote)	May 24, 2021
Adopted amendment transmitted to local jurisdictions	May 25 - 28, 2021
Local jurisdictions required to submit the MOE certification for FY 2021-22	June 30, 2021
Amendment effective 45 days following adoption	July 8, 2021

### ***Summary***

An amendment to the M2 Ordinance is proposed to continue assisting local jurisdictions manage the economic impacts of the COVID-19 pandemic. The amendment will extend the revised MOE requirements for FY 2020-21 through FY 2021-22, while upholding the legislative intent of the M2 Ordinance. Staff also requests that the Board set a public hearing date for May 24, 2021.

***Attachments***

- A. Procedures to Amend the Renewed Measure M Transportation Investment Plan and Ordinance No. 3, Language Excerpt and Amendment History
- B. Proposed Orange County Local Transportation Authority Ordinance No. 3, Maintenance of Effort Requirements Excerpt, Section 6, Page 3

**Prepared by:**



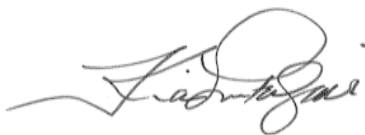
Adriann Cardoso  
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**Prepared by:**



Francesca Ching  
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Management Office  
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**Approved by:**



Kia Mortazavi  
Executive Director, Planning  
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**PROCEDURES TO AMEND THE  
RENEWED MEASURE M TRANSPORTATION INVESTMENT PLAN  
AND ORDINANCE NO. 3  
LANGUAGE EXCERPT AND AMENDMENT HISTORY**

**PROCEDURES**

The Orange County Local Transportation Authority (OCLTA) Ordinance No. 3 approved by Orange County voters on November 6, 2007, includes the following procedures to amend the Renewed Measure M Transportation Investment Plan (Plan) and the OCLTA Ordinance No. 3, by the OCTLA Board of Directors (Board):

A proposed amendment which eliminates a program or project specified on page 31 of the Plan shall not be adopted unless the Board adopts a finding that the transportation purpose of the program or project to be eliminated will be satisfied by a different program or project.

A proposed amendment which changes in funding categories, programs, or projects identified within the expenditure plan, page 31 of the Plan, shall be first approved by a two-thirds vote of the Taxpayers Oversight Committee.

Proposed amendments to the Plan and Ordinance No. 3 shall be presented to the Board. The Board shall set a date no sooner than 30 days thereafter for a public hearing to consider the proposed amendment(s), and the proposed amendment(s) shall be transmitted to the County Board of Supervisors and the city council of each Orange County city not less than 30 days prior to the public hearing.

Local agencies may offer comments in writing or in person at the public hearing and such comments shall be incorporated into the public record of the hearing.

The Board shall hold a public hearing prior to the adoption of the amendment.

The amendment shall be passed by a roll call vote with at least a two-thirds majority of Board members.

The Orange County Transportation Authority shall give written notice of the amendment to the County Board of Supervisors and all city councils.

Amendment(s) to the Plan or Ordinance No. 3 shall become effective 45 days after adoption.

In addition, a proposed amendment which changes funding allocations among the four major categories of: freeway projects, streets and roads projects, transit projects, and environmental cleanup projects, as identified on page 31 of the Plan; or which changes funding allocations for Local Fair Share Program net revenues (Section IV, C, 3 of Attachment B) shall be approved by a simple majority vote of the electors before going into effect.

**Orange County Local Transportation Authority Ordinance No. 3 Amendment Excerpt  
Page 6-7**

**SECTION 12. AMENDMENTS**

The Authority may amend the Ordinance, including the Plan, to provide for the use of additional federal, state, and local funds, to account for unexpected revenues, or to take into consideration unforeseen circumstances. The Authority shall notify the board of supervisors and the city council of each city in the county and provide them with a copy of the proposed amendments, and shall hold a public hearing on proposed amendments prior to adoption, which shall require approval by a vote of not less than two thirds of the Authority Board of Directors. Amendments shall become effective forty-five days after adoption. No amendment to the Plan which eliminates a program or project specified on Page 31 of the Plan shall be adopted unless the Authority Board of Directors adopts a finding that the transportation purpose of the program or project to be eliminated will be satisfied by a different program or project. No amendment to the Plan which changes the funding categories, programs or projects identified on page 31 of the Plan shall be adopted unless the amendment to the Plan is first approved by a vote of not less than two thirds of the Committee. In addition, any proposed change in allocations among the four major funding categories of freeway projects, street and road projects, transit projects and Environmental Cleanup projects identified on page 31 of the Plan, or any proposed change of the Net Revenues allocated pursuant to Section IV C 3 of Attachment B for the Local Fair Share Program portion of the Streets and Roads Projects funding category, shall be approved by a simple majority vote of the electors before going into effect.

## **Amendment History**

### **Measure M Amendments Ordinance Amendment**

1. September 23, 1991: Procedures and recommendation for amendments to the Measure M Ordinance
2. September 26, 2011: Agencies which qualify as an “Eligible Jurisdiction” under Ordinance No. 3 (Measure M2 {M2}) to also be an “Eligible Jurisdiction” under Ordinance No. 2. (Policy Resolution No. 3, Section II C1, subsection b)

### **Expenditure Plan Amendments**

1. November 25, 1991: Reallocation of funds within the freeway program.
2. May 23, 1994: Reallocation of freeway program funding between Interstate 5 and State Route 91 (SR-91)/State Route 55.
3. May 13, 1996: Cost savings transferred to Commuter and Urban Rail Endowment fund accounts.
4. June 9, 1997: Amendments to local streets and roads component.
5. December 10, 2001: Amend the freeway program to add State Route 22 (SR-22) at \$203 million.
6. September 13, 2004: Amend the freeway program to advance SR-22 and additional \$123.7 million.
7. September 24, 2007: Modify State Route 57 (SR-57) description consistent with Project G in M2 and increase funding by \$22 million and expand limits of SR-22 to include the West County Connection improvements and increase funding by \$10 million.
8. March 8, 2010: Decrease SR-57 funding by \$22 million.

## **M2 Amendments**

### **Ordinance Amendments**

1. November 25, 2013: Strengthens the eligibility and selection process for Taxpayers Oversight Committee (TOC) members to prevent any person with a financial conflict of interest from serving as a member. Also requires currently elected or appointed officers who are applying to serve on the TOC to complete an "Intent to Resign" form.
2. December 14, 2015 (corrected March 14, 2016): Accounts for additional funding from Project T allocated to the Fare Stabilization Program by changing Attachment B language to reflect a 1.47% delegation (rather than 1%) of Project U funding towards Fare Stabilization. Corrected amendment language was presented to the Board of Directors (Board) on March 14, 2016.
3. June 22, 2020: Temporarily changes the maintenance of effort requirements for fiscal year 2019-20 and fiscal year 2020-21 to assist local jurisdictions through the unprecedented period of uncertainty due to the economic impacts of the 2020 coronavirus pandemic.

### **Plan Amendments**

1. November 9, 2012: Reallocation of funds within the freeway program between SR-91 and Interstate 405
2. December 14, 2015 (corrected March 14, 2016): Closeout of Project T and reallocation of remaining funds within the Transit Program between Metrolink Service Expansion Project (Project R) and Fare Stabilization Program (Project U). Corrected amendment language was presented to the Board on March 14, 2016.

**Proposed Orange County Local Transportation Authority  
Ordinance No. 3  
Maintenance of Effort Requirements**

**Section 6, Page 3**

**SECTION 6. MAINTENANCE OF EFFORT REQUIREMENTS**

It is the intent of the Legislature and the Authority that the Net Revenues allocated to a jurisdiction pursuant to the Ordinance for street and road projects shall be used to supplement existing local discretionary funds being used for transportation improvements. Each jurisdiction is hereby required to annually maintain as a minimum no less than the maintenance of effort amount of local discretionary funds required to be expended by the jurisdiction for local street and road purposes pursuant to the current Ordinance No. 2 for Fiscal Year 2010-2011. The maintenance of effort level for each jurisdiction as determined through this process shall be adjusted effective July 1, 2014 and every three fiscal years thereafter in an amount equal to the percentage change for the Construction Cost Index compiled by Caltrans for the immediately preceding three calendar years, providing that any percentage increase in the maintenance of effort level based on this adjustment shall not exceed the percentage increase in the growth rate in the jurisdiction's general fund revenues over the same time period. The Authority shall not allocate any Net Revenues to any jurisdiction for any fiscal year until that jurisdiction has certified to the Authority that it has included in its budget for that fiscal year an amount of local discretionary funds for streets and roads purposes at least equal to the level of its maintenance of effort requirement. An annual independent audit may be conducted by the Authority to verify that the maintenance of effort requirements are being met by the jurisdiction. Any Net Revenues not allocated pursuant to the maintenance of effort requirement shall be allocated to the remaining eligible jurisdictions according to the formula described in the Ordinance.

In order to address the impacts of the novel coronavirus pandemic (commonly referred to as COVID-19), for fiscal year (FY) 2019-20, jurisdictions shall comply with all submittal requirements under the ordinance, including, but not limited to, those requirements under Attachment B (III) - Requirements for Eligible Jurisdictions, but will not be required to meet the required maintenance of effort (MOE) amount for that particular jurisdiction for the FY 2019-20. For FY 2020-21 and FY 2021-22, jurisdictions shall be required to comply with all submittal requirements under the ordinance, including, but not limited to, those requirements under Attachment B (III) - Requirements for Eligible Jurisdictions, but shall only be required to meet the MOE amount for that particular jurisdiction for the FY at the same proportional share of streets and roads discretionary expenditures to general fund revenues based upon the proportion of the FY 2020-21 MOE benchmark to general fund revenues that were reported in their respective Comprehensive Annual Financial Report for FY 2018-19. Jurisdictions are encouraged to use their best efforts during FY 2019-20, and FY 2020-21, and FY 2021-22 to meet original MOE levels.

# State of Cyber Security

2021

*Supporting the OCTA mission by protecting OCTA networks, systems, and the confidentiality of data.*





# Cyber Security Team Members

Government / Private / Department of Defense

Cyber Security: 40 YRS    IT: 32 YRS

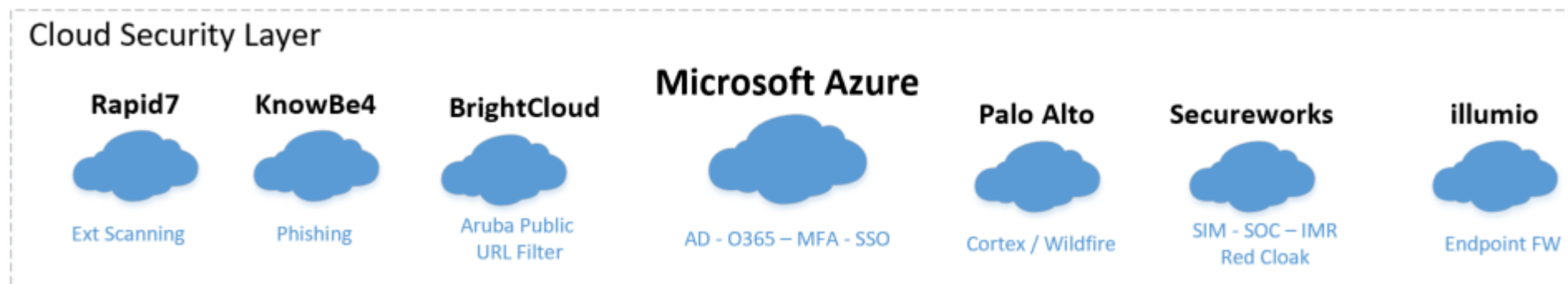
- **Michael Cardoza**
  - Cyber Security Manager
    - DHS held Security Clearance (SECRET)
- **Phil Moncada**
  - Cyber Security Analyst, Sr
- **Sean Slaven**
  - Cyber Security Analyst, Sr
- **Samantha Robert**
  - Cyber Risk Manager



# Cybersecurity Overview

- Cloud / Network / Endpoint
- Monitor, Detect, Alert, and Protect
- SIEM\* / 24-hr Security Operations Center
- Vulnerability Scanning and Remediation
- Machine Learning / Behavior Analysis
- Access Management
- Multi-Factor authentication /Single Sign-on
- Network Segmentation
- Email / Phishing Protection & Training

• \*Security information and event management



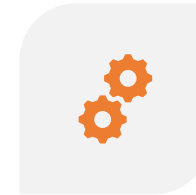


# 2020 Accomplishments

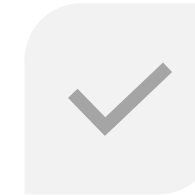
## Cyber Security Accomplishments

1. Remote work security reviews and enhancements
2. Cybersecurity integrations
3. Completion of multiple vulnerability programs
4. Completion of 1<sup>st</sup> year mandatory security training
5. Automated processes
6. 300 percent increase in AI\* monitored networked devices
7. Integration of Cloud, perimeter, and endpoint monitoring and protection.
8. Third-party & Internal audits, risk assessments, and testing
9. Data security best practices

\*Artificial Intelligence



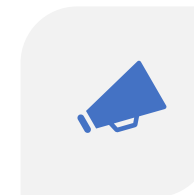
MDR  
IMPLEMENTATION



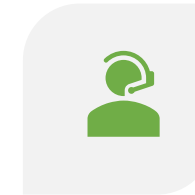
RAPID7  
IMPLEMENTATION



VULNERABILITY  
REMEDIATION



USER TRAINING &  
AWARENESS



AUDIT SUPPORT &  
RESPONSE



DATA CENTER  
SECURITY

# Monitor, Detect, and Respond

## Over 294 billion logs reviewed in 2020

- AI powered Security Solutions
- Cloud, Perimeter, & Endpoint monitoring
- 24/7 Security Operations Center
- Threat Hunting and Intelligence
- Incident Response and Support

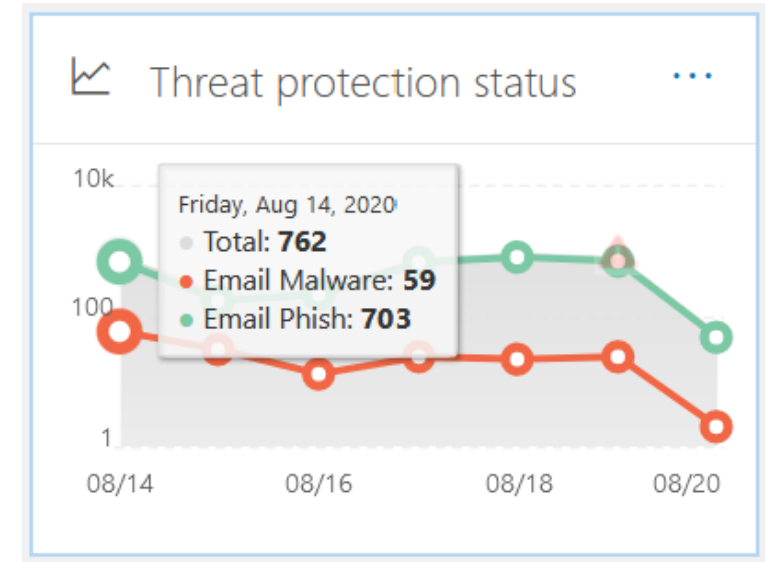
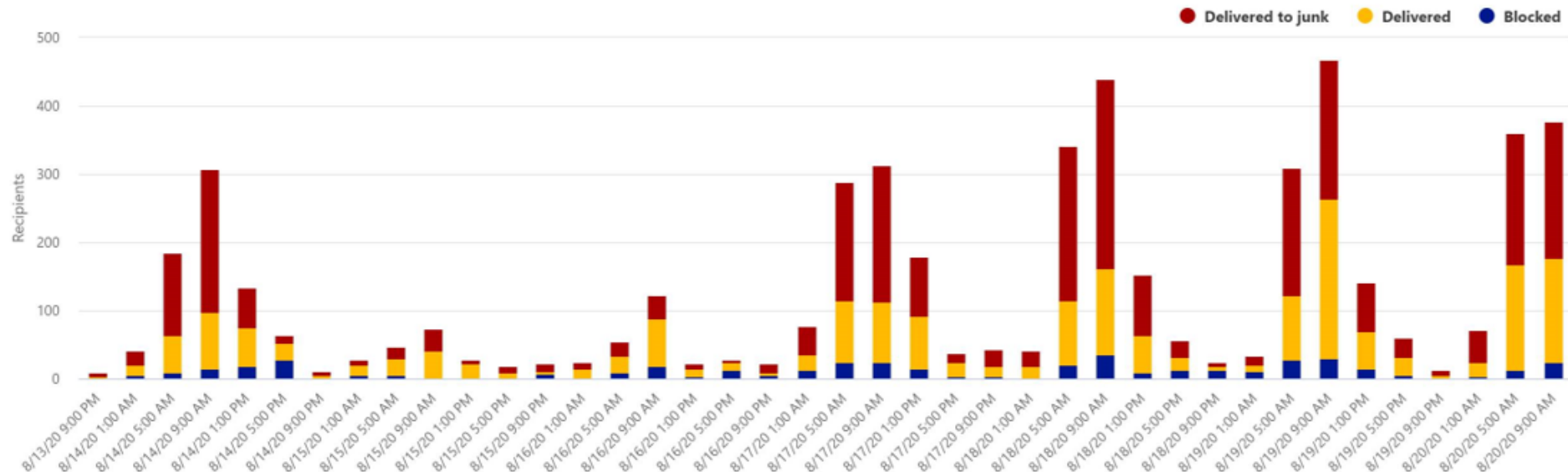
**Zero Loss of Data**



# Cloud Security

- AI based automation
- Monitoring of logins and risky behavior in Microsoft 365
- Advanced threat protection for email
- Anti-phishing, impersonation, and malware protection
- Multi-factor authentication and Single Sign-on
- Conditional Access

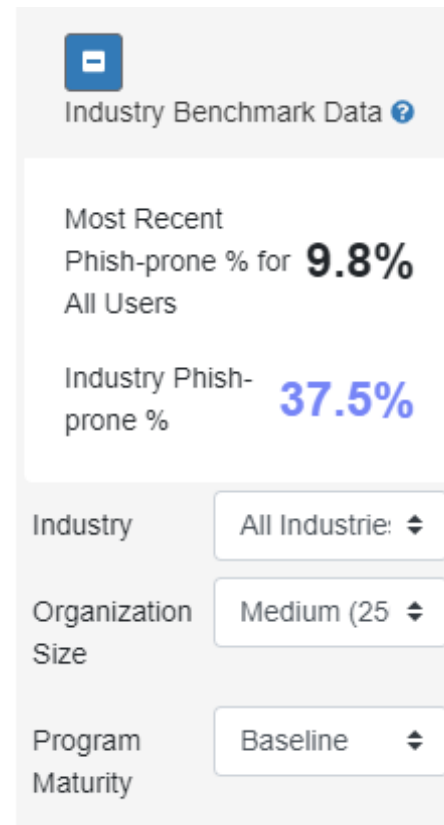
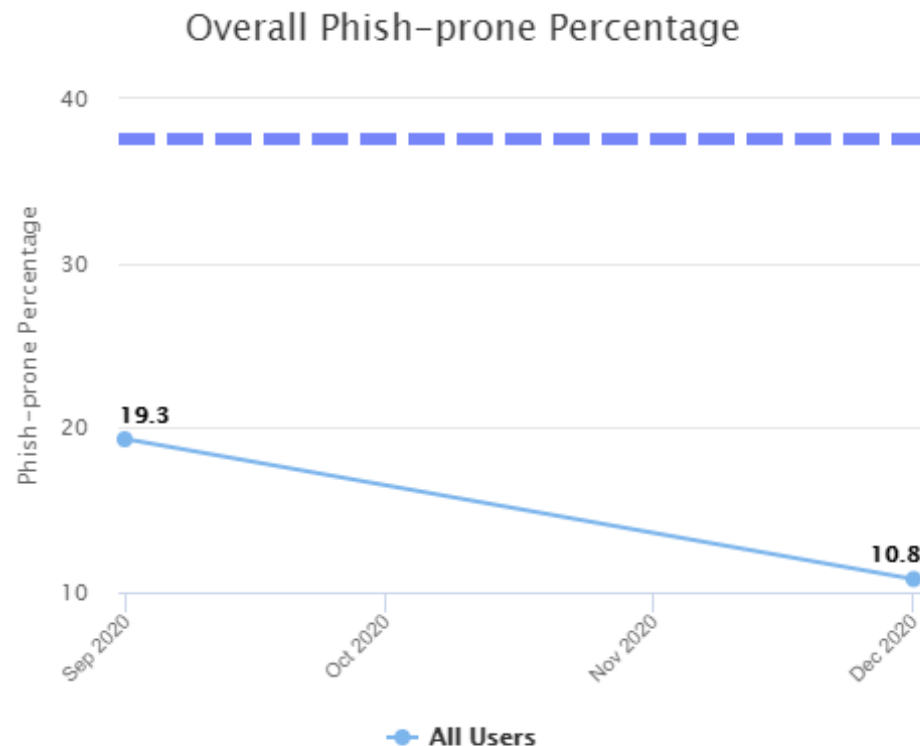
▼ Delivery action



# Security Awareness Program

- OCTA employees are an important part of our security program
- Phishing is an important part of an attacker's process
- Training remains a focus of our Security Awareness Program

*91 percent of cyberattacks begin with a spear phishing email (KnowBe4 2020)*



All Campaigns	
Total Campaigns	17
Active Campaigns	0
Inactive Campaigns	17
Phishing Security Tests	17

# 2021 Cybersecurity Goals

## Cyber Security Goals

1. Identify and remediate vulnerabilities and threats
2. Review and update policies and procedures
3. Maintain scanning, monitoring, and auditing responsibilities
4. Provide regular OCTA cybersecurity training and awareness
5. Continue Third-party & internal risk assessments
6. Determine and implement security enhancements
7. Test and tune security tools

