



# **AGENDA**

## ***Transit Committee Meeting***

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### **Committee Members**

Andrew Do, Chairman  
Gregory T. Winterbottom, Vice Chairman  
Laurie Davies  
Steve Jones  
Jose F. Moreno  
Miguel Pulido  
Tim Shaw

Orange County Transportation Authority  
Headquarters  
550 South Main Street  
Board Room – Conf. Room 07  
Orange, California

**Thursday, February 14, 2019 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 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.

## **Call to Order**

### **Pledge of Allegiance**

Director Davies

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

### **Special Calendar**

#### **2. Committee Meeting 2019 Schedule**

Andrew Do

Committee Chairman Do will lead a discussion regarding the 2019 meeting schedule for the Transit Committee. The proposed dates and times for this Committee are provided in Attachment A.



**3. Roles and Responsibilities of the Transit Committee**

Darrell E. Johnson

Roles and responsibilities for the Transit Committee are reviewed periodically for any appropriate changes or additions. These roles and responsibilities are presented for discussion in Attachment A.

**Consent Calendar (Item 4)**

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.

**4. Approval of Minutes**

Approval of the minutes of the Transit Committee meeting of January 10, 2019.

**Regular Calendar**

**5. Measure M2 Community-Based Transit Circulators Program Project V Ridership Report**

Christina Moore/Kia Mortazavi

**Overview**

Measure M2 establishes a competitive process, through the Measure M2 Community-Based Transit Circulators Program, to fund local transit services which complement regional transit. As of September 30, 2018, the Orange County Transportation Authority Board of Directors had approved 29 multi-year projects for a total of \$43.3 million for Project V services. A ridership report on Project V services operating through the reporting period is provided for informational purposes. The reporting period is comprised of the fourth quarter of fiscal year 2017-18 and the first quarter of fiscal year 2018-19.

**Recommendation**

Receive and file as an information item.



## **Discussion Items**

**6. Hydrogen Fuel Cell Electric Bus Update**

Cliff Thorne/Jennifer L. Bergener

Staff will provide an update on the hydrogen fuel cell electric buses and fueling station.

**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 Thursday, March 14, 2019**, at the Orange County Transportation Authority Headquarters, 550 South Main Street, Board Room - Conference Room 07, Orange, California.



# ORANGE COUNTY TRANSPORTATION AUTHORITY ATTACHMENT A

## 2019 Transit Committee Meetings

JANUARY						
SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
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27	28	29	30	31		

FEBRUARY						
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MARCH						
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31						

APRIL						
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MAY						
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JUNE						
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JULY						
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AUGUST						
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SEPTEMBER						
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OCTOBER						
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NOVEMBER						
SUN	MON	TUE	WED	THU	FRI	SAT
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DECEMBER						
SUN	MON	TUE	WED	THU	FRI	SAT
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29	30	31				

OCTA, OCTD, OCLTA, and OCSAFE regular Board meeting  
9:00 a.m., OCTA Headquarters  
550 South Main Street, Board Room - Conf. Room 07, Orange CA

Transit Committee  
9:00 a.m.

OCTA Holidays

## 2019 OCTA Proposed Committee Meeting Calendar Transit Committee

Month	2019 Proposed Changes - Comparison with 2018 Calendar
January	No change
February	Delete the second Transit Committee meeting of Thursday, February 28 <sup>th</sup> .
March	No change
April	No change
May	No change
June	No change
July	No change
August	No change
September	Delete the second Transit Committee meeting of Thursday, September 26 <sup>th</sup> .
October	No change
November	No change
December	No change

**Proposed Roles and Responsibilities  
of the Board Committees for 2019  
(02.14.19)**

**Transit Committee**

- Develops, reviews, and provides policy recommendations to the Board of Directors on matters related to the operation of bus and ~~commuter~~ rail services, including but not limited to, fixed-route bus services, express route bus service, bus rapid transit service, ACCESS service, other paratransit service, and Metrolink service;
- Reviews and provides recommendations to the Board of Directors on matters pertaining to the planning of bus and rail transit services;
- Reviews and provides recommendations to the Board of Directors on transit ridership, schedules, and service policies;
- Reviews and provides recommendations to the Board of Directors on bus and rail transit projects, including OCTA revenue vehicles, support equipment, operations facilities, and Metrolink facilities and stations;
- Makes recommendations to the Board of Directors on use and procurement of professional services and contractors to support planning and delivery of OCTA projects, programs, and services;
- Reviews and provides recommendations to the Board of Directors on future transit programs, such as the Senior Mobility Program, Go Local projects, community circulators, and high-speed rail;
- Reviews and provides recommendations to the Board of Directors on matters related to transit technology and innovation, such as mobile ticketing applications and other on-demand service delivery models; and
- Reviews and provides recommendations to the Board of Directors on the role of transit services in attainment of air quality goals.



**Committee Members Present**

Steve Jones, Vice Chairman  
Laurie Davies  
Miguel Pulido  
Gregory T. Winterbottom

**Staff Present**

Darrell E. Johnson, Chief Executive Officer  
Ken Phipps, Deputy Chief Executive Officer  
Laurena Weinert, Clerk of the Board  
Sara Meisenheimer, Deputy Clerk of the Board  
James Donich, General Counsel  
OCTA Staff and members of the General Public

**Committee Members Absent**

Andrew Do

**Call to Order**

The January 10, 2019 regular meeting of the Transit Committee was called to order by Committee Vice Chairman Jones at 9:04 a.m.

**Pledge of Allegiance**

Director Winterbottom led in the Pledge of Allegiance.

**1. Public Comments**

No public comments were received.

**Special Calendar**

There were no Special Calendar matters.

**Consent Calendar (Items 2 through 6)**

**2. Approval of Minutes**

A motion was made by Director Davies, seconded by Director Winterbottom, and declared passed by those present, to approve the minutes of the Transit Committee meeting of November 8, 2018.

Director Pulido was not present to vote on this item.

**3. Agreement for Building Repairs at the Irvine Construction Circle Bus Base**

A motion was made by Director Davies, seconded by Director Winterbottom, and declared passed by those present, to:

- A. Find Jazzar Construction Group, Inc., the apparent low bidder, as non-responsive for failure to execute and submit the required certification of restrictions on lobbying form.

**3. (Continued)**

- B. Authorize the Chief Executive Officer to negotiate and execute Agreement No. C-8-1802 between the Orange County Transportation Authority and Fast-Track Construction Corporation, the lowest responsive, responsible bidder, in the amount of \$438,000, for building repairs at the Irvine Construction Circle Bus Base.

Director Pulido was not present to vote on this item.

**4. Consultant Selection for Construction Management Services for the Anaheim Canyon Metrolink Station Improvement Project**

A motion was made by Director Davies, seconded by Director Winterbottom, and declared passed by those present, to:

- A. Approve the selection of Berg & Associates, Inc., as the firm to provide construction management services for the Anaheim Canyon Metrolink Station Improvement project.
- B. Authorize the Chief Executive Officer to negotiate and execute Agreement No. C-8-1760 between the Orange County Transportation Authority and Berg & Associates, Inc., as the firm to provide construction management services for the Anaheim Canyon Metrolink Station Improvement project.

Director Pulido was not present to vote on this item.

**5. Construction of the Laguna Niguel to San Juan Capistrano Passing Siding Project**

A motion was made by Director Davies, seconded by Director Winterbottom, and declared passed by those present, to:

- A. Authorize the Chief Executive Officer to negotiate and execute Agreement No. C-7-2018 between the Orange County Transportation Authority and Reyes Construction, Inc., the lowest responsive, responsible bidder, in the amount of \$16,952,426, for construction of the Laguna Niguel to San Juan Capistrano Passing Siding project.
- B. Authorize the use of \$6,230,000 in state and federal funds made available from project savings at closeout for the Laguna Niguel to San Juan Capistrano Passing Siding project as follows:



**5. (Continued)**

- a. \$2,806,000 in Proposition 116 savings from the Sand Canyon Avenue Railroad Grade Separation and the fiber optics projects;
  - b. \$2,000,000 in Proposition 1B Intercity Rail Improvement funds to replace Transit and Intercity Rail Capital Program funds previously programmed to the project;
  - c. Formula Federal Transit Administration Section 5309 savings from the Control Point 4th Street Project, currently estimated to be \$1,015,000; and
  - d. Congestion Mitigation and Air Quality Improvement Program funds for any remaining funding needs, currently estimated to be \$409,000.
- C. Authorize staff to process all necessary amendments to the Federal Transportation Improvement Program and execute any necessary amendments and/or agreements to facilitate associated programming actions.

Director Pulido was not present to vote on this item.

**6. Federal Transit Administration Sections 5307, 5310, 5337, and 5339 Program of Projects for Federal Fiscal Year 2018-19**

A motion was made by Director Davies, seconded by Director Winterbottom, and declared passed by those present, to:

- A. Approve the federal fiscal year 2018-19 Federal Transit Administration Section 5307 Urbanized Area Formula, Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities, Section 5337 State of Good Repair, and Section 5339 Bus and Bus Facilities program of projects, including federal and local funds, and the use of match credit for projects.
- B. Approve the five-year programming plans for Federal Transit Administration Section 5307, Federal Transit Administration Section 5310, Federal Transit Administration Section 5337, and Federal Transit Administration Section 5339.
- C. Authorize staff to adjust individual project funding consistent with final apportionments and eligibility determinations through the Fixing America's Surface Transportation Act, and direct staff to include updated numbers in grant and programming status reports.

**9. (Continued)**

- D. Authorize the Chief Executive Officer to submit the federal fiscal year 2018-19 Federal Transit Administration grant applications to the Federal Transit Administration.
- E. Authorize staff to process all necessary amendments to the Federal Transportation Improvement Program and execute or amend all necessary agreements to facilitate the above actions.

Director Pulido was not present to vote on this item.

**Regular Calendar**

**7. Agreement for Bus Ridership Data Collection Services**

Johnny Dunning Jr., Manager of Scheduling and Customer Advocacy, introduced Jeff Tatro, Section Manager of Scheduling and Bus Operations Support, and reported on the following:

- The history and purpose of ridership data collection, performing random on-board ride checks, and how it helps the Orange County Transportation Authority (OCTA) improve bus service.
- Overview of the procurement approach and staff's recommendations.

A short discussion ensued regarding the amount OCTA paid for this contract in the past and if the amount had changed.

A motion was made by Director Winterbottom, seconded by Director Davies, and declared passed by those present, to:

- A. Approve the selection of National Data & Surveying Services, Inc., doing business as Southland Car Counters, as the firm to provide bus ridership data collection services.
- B. Authorize the Chief Executive Officer to negotiate and execute Agreement No. C-8-1850 between the Orange County Transportation Authority and National Data & Surveying Services, Inc., doing business as Southland Car Counters, in the amount of \$765,141, to provide bus ridership data collection services for a term of three years with two, one-year option terms.

Director Pulido was not present to vote on this item.

**8. Bus Operations Performance Measurements Report for the First Quarter of Fiscal Year 2018-19**

Johnny Dunning Jr., Manager of Scheduling and Customer Advocacy, provided a PowerPoint presentation as follows:

- Performance Measurements;
- Safety;
- Courtesy;
- Reliability: On-Time Performance;
- Reliability: Miles Between Road Calls;
- Fixed-Route-Ridership and Productivity;
- Access-Ridership and Productivity;
- Farebox Recovery Ratio;
- Cost per Revenue Vehicle Hour;
- Performance: Local Routes;
- Performance: Community Routes;
- Performance: Express/Stationlink Routes;
- Bus Operations Performance and OC Bus 360°;
- Performance: System-wide Trends;
- Performance: OC 360° Improvements;
- Performance: OC 360° Reductions; and
- Future Reports.

Director Winterbottom complimented the report.

Following the discussion, no action was taken on this receive and file information item.

**Discussion Items****9. Chief Executive Officer's Report**

Darrell E. Johnson, Chief Executive Officer (CEO), reported on the following:

- OCTA hosted, along with ABC7 and Southern California firefighters, the 26<sup>th</sup> annual Stuff-A-Bus Spark of Love Toy drive at the Honda Center. OCTA stuffed 23 buses with donated toys for kids in need throughout Orange County. Mr. Johnson thanked Directors Do and Winterbottom for attending.
- On New Year's Eve, for the 17<sup>th</sup> year in a row, OCTA provided free bus service. There were 6,300 boardings compared to 4,000 boardings the prior year and no unusual behavior was reported.

## **9. (Continued)**

- OC Flex continues to perform well and a six-month report will be forth coming. OCTA recorded 12-weeks of data as follows:
  - 5,000 boardings with an average wait time of ten to eleven minutes.
  - 23 percent of riders pay with cash.
  - 41 percent of riders use the OC FLEX app.
  - 36 percent of riders transfer from Metrolink or another bus service.
- On Monday, January 7, 2019, Governor Newsom was sworn-in and today, he will release the state budget. Staff will prepare a summary which will be sent to the Board of Directors today.
- The Interstate 405 freeway will have two closures over the weekend:
  - Southbound lanes between Warner Avenue and Beach Boulevard will be closed starting at 11:00 p.m. on Saturday until 8:00 a.m. on Sunday.
  - The Magnolia Avenue street bridge, along with the freeway on-ramps, will also be closed overnight on Friday and Saturday.
- Due to scheduled track work, there will be no weekend train service between Laguna Niguel/Mission Viejo and Oceanside on the Orange County and Inland Empire/Orange County Metrolink lines starting January 12<sup>th</sup> and 13<sup>th</sup>, February 9<sup>th</sup> and 10<sup>th</sup>, March 2<sup>nd</sup> and 3<sup>rd</sup> and March 9<sup>th</sup> and 10<sup>th</sup>. These weekends were selected due to low ridership in those areas.

## **10. Committee Members' Reports**

Director Davies thanked staff for the OC Flex update and requested the demographic data.

Mr. Johnson, CEO, stated staff is still working on compiling the data and he will follow up with Director Davies

## **11. Closed Session**

There were no Closed Session items scheduled.



**12. Adjournment**

The meeting adjourned at 9:22 a.m.

The next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Thursday, February 14, 2019**, at the Orange County Transportation Authority Headquarters, 550 South Main Street, Board Room - Conference Room 07, Orange, California.

ATTEST

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Steve Jones  
Committee Vice Chairman

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Sahara Meisenheimer  
Deputy Clerk of the Board



**February 14, 2019**

**To:** Transit Committee

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

**Subject:** Measure M2 Community-Based Transit Circulators Program  
Project V Ridership Report

### **Overview**

Measure M2 establishes a competitive process, through the Measure M2 Community-Based Transit Circulators Program, to fund local transit services which complement regional transit. As of September 30, 2018, the Orange County Transportation Authority Board of Directors had approved 29 multi-year projects for a total of \$43.3 million for Project V services. A ridership report on Project V services operating through the reporting period is provided for informational purposes. The reporting period is comprised of the fourth quarter of fiscal year 2017-18 and the first quarter of fiscal year 2018-19.

### **Recommendation**

Receive and file as an information item.

### **Background**

Project V is a competitive program under Measure M2 (M2) that provides funding to develop and implement local transit services. Services eligible for this program include community-based circulators, shuttles, trolleys, and demand-responsive services that complement regional bus and rail services, and better suit local needs in areas not adequately served by regional transit.

Project V-funded service performance is evaluated on a quarterly basis. Shuttles, trolleys, and event services must meet or exceed minimum performance standards as established in the Comprehensive Transportation Funding Programs (CTFP) Guidelines. This allows staff to work with local agencies to make adjustments if necessary, to the service plan with a goal to improve ridership.

If services continue to perform below the minimum performance standard, they are evaluated for cancellation of Project V funding. In the event of cancellation, remaining funds are returned to the program for use in subsequent calls for projects (call). To date, there is an estimated \$8.1 million in project savings which has returned to the program.

Staff provides ridership reports (twice yearly) to the Orange County Transportation Authority (OCTA) Transit Committee and the Board of Directors (Board) on active Project V services. This report includes ridership information for 18 projects that were in operation during the reporting period of April 1, 2018 through September 30, 2018. Additional projects will be added to this report as services begin.

### ***Discussion***

Current Project V services include a combination of special event, commuter, fixed-route, and on-demand projects that meet a variety of community needs. The prior ridership report reflected 16 services in operation. Since then, the cities of Anaheim and Costa Mesa have cancelled their services due to low productivity. Additionally, four new services from the 2018 call have initiated. These new services include the City of Laguna Beach Summer Breeze Service, the City of San Juan Capistrano's Special Event and Weekend Summer Trolley Service, and the expansion of existing services in the cities of Newport Beach and San Clemente.

The current ridership report reflects 18 active services. Services must achieve six passenger boardings per revenue vehicle hour (B/RVH) by the end of year one and ten B/RVH by the end of year two. This performance standard was set based on OCTA's operating subsidy of no more than \$9 per boarding plus matching funds provided by local agencies. During this reporting period most services either met or exceeded their respective performance standards. Productivity for special event services averaged 25 B/RVH, commuter services averaged 17 B/RVH, fixed-route services averaged eight B/RVH, and the demand responsive service averaged nine boardings per hour of service (B/HOS)<sup>1</sup>.

Active Project V services are identified below. Complete ridership details and next steps for services that are not meeting performance standards are provided in Attachment A.

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<sup>1</sup> B/HOS does not include layover or recovery time and is more reflective of how demand-based transit services operate.

Services meeting or exceeding the minimum established performance standard include:

- County of Orange - Local Circulator and Special Event Service,
- Dana Point - Summer Trolley and Seasonal Shuttle,
- Dana Point - Pacific Coast Highway and Special Event Trolley,
- Huntington Beach - Holiday and Event Shuttle,
- Laguna Beach - Summer Weekend Trolley and Seasonal Service,
- Laguna Beach - Summer Breeze Bus Service,
- Lake Forest - Commuter Vanpool Service Irvine Station and Ossur,
- Lake Forest - Commuter Shuttle Service Irvine Station and Panasonic,
- Newport Beach - Balboa Peninsula Seasonal Trolley,
- Newport Beach - Balboa Peninsula Seasonal Trolley Expansion,
- San Clemente - Summer Weekend Trolley and Seasonal Service,
- San Clemente - Summer Weekday Trolley and Seasonal Service Expansion, and
- San Juan Capistrano - Special Event and Weekend Summer Trolley Service.

Services below the minimum established performance standard include:

- Huntington Beach - Seasonal Local Transit Service,
- La Habra - Special Event Service,
- Laguna Beach - Residential Trolley Year-Round and Seasonal Service,
- Mission Viejo - Local Community Circulator, and
- San Clemente - On-Demand Services.

For the cities of Huntington Beach and Mission Viejo<sup>2</sup> services, OCTA will notify the cities that these programs did not meet the minimum performance targets in the timeframe required and M2-funded Project V support is scheduled to be cancelled. Staff has worked with both agencies over the last year to modify service hoping to improve ridership which unfortunately, has not been realized. Moving forward, staff will work with the cities on outreach and timing to bring the services to an appropriate conclusion.

For the cities of La Habra and Laguna Beach, these services are currently trending below required performance targets. If these trends continue through the required performance target dates, services will be subject to cancellation.

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<sup>2</sup> With respect to Mission Viejo, it should be noted that this service's performance difficulties were reported to the Board in the last M2 Community-Based Transit Circulators Program Project V Ridership Report, which was presented in July 2018. Huntington Beach's performance difficulties were not reported at that time due to the service being inactive during the reporting period.



In the interim, OCTA will work with these cities to improve the productivity and will also continue to evaluate them in order to provide them with the best opportunity to meet performance standards within the required timeframes.

As part of Project V funding, the City of San Clemente (San Clemente) is operating demonstration demand-responsive service, in partnership with Lyft, Inc, that provides access for San Clemente residents in neighborhoods previously served by OCTA routes 191 and 193, which were eliminated in fall 2016 due to low productivity. This demonstration service offers convenience and efficiency in areas where traditional buses have a challenge for residents and transit operations. The funding for this service was extended by five years by Board action in late 2018, based on the demonstration nature of this service.

San Clemente has requested that this demonstration program utilize a different performance metric, more specifically, B/HOS. San Clemente's rationale for this request was that the B/RVH metric does not accurately measure the performance for this unique service model. For example, B/RVH calculations include layover and recovery time in productivity calculations and these types of service elements do not exist when a vehicle goes into service when a request for service is made. Current research has not settled upon a clear metric for these types of demand responsive services. By policy, OCTA's subsidy is capped at \$9 per boarding and this demonstration service is currently performing at \$4.94 subsidy per boarding, well below OCTA's maximum.

Staff has reviewed San Clemente's request, considered the special operating characteristics of this service, and found this request to be consistent with the CTFP Guidelines. As such, staff is working to amend the current cooperative agreement with San Clemente to incorporate this proposed change (reported B/HOS [no minimum], but no more than \$9 subsidy/boarding), which will also be reflected in future reports. Staff will continue to monitor and measure service performance and assess appropriate next steps for this type of service, which will include evaluation of all project-related efforts and policies to determine how best to support and administer this emerging transit delivery model.

OCTA staff will also continue to closely monitor services that are below minimum performance standards and will meet with local agency staff on ideas and concepts to improve service productivity and ridership. Staff will also continue to provide twice yearly updates to the Board on overall Project V status and performance.

***Summary***

A status report on Project V services is provided for information purposes. Staff will continue to work with local agencies and monitor these services. In addition, information on services starting later this year will be provided in future reports. The next M2 Community-Based Transit Circulators Program Project V Ridership Report is scheduled for July 2019.

***Attachment***

- A. Project V Services – Current Ridership Report

**Prepared by:**

A handwritten signature in black ink that reads "Christina Moore". The signature is written in a cursive style with a large initial "C".

Christina Moore  
Senior Transportation Funding Analyst  
(714) 560-5452

**Approved by:**

A handwritten signature in black ink that reads "Kia Mortazavi". The signature is written in a cursive style with a large initial "K".

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

## Project V Services - Current Ridership Report

Reporting Period: Q4 FY 2017-18 and Q1 FY 2018-19

Agency	Service Description	Measure M2 Project V Programmed Funds	Service Type	Service Start Month/Year	Boardings Per Revenue Vehicle Hour <sup>1</sup> (B/RVH)	Next Steps
County of Orange	Local Circulator and Special Event Service	\$ 2,041,547	Local Circulator and Special Event	June 2017	11	-
Dana Point	Summer Trolley and Seasonal Shuttle	\$ 2,456,511	Seasonal Service	June 2015	14	-
Dana Point	Pacific Coast Highway and Special Event Trolley	\$ 905,968	Seasonal Service	June 2017	16	-
Huntington Beach	Holiday and Event Shuttle	\$ 93,287	Special Event	July 2015	19	-
Huntington Beach	Seasonal Local Transit Service	\$ 917,700	Seasonal Service	July 2017	4	60-day discontinuation of service notice has been drafted. Staff will work with Huntington Beach on the cancellation of service during this transition period.
La Habra	Special Event Service	\$ 96,810	Special Event	November 2016	9	Staff will continue to work with La Habra to implement strategies to reduce unproductive service hours.
Laguna Beach	Summer Weekend Trolley and Seasonal Service	\$ 3,559,860	Special Event	March 2015	29	-
Laguna Beach	Residential Trolley Year-Round and Seasonal Service	\$ 1,967,400	Year-Round and Seasonal Service	July 2017	6	Staff will continue to monitor service and work with Laguna Beach to discuss ideas and concepts to improve productivity for the year two performance target.
Laguna Beach	Summer Breeze Bus Service	\$ 634,357	Seasonal Service	July 2018	23	-
Lake Forest	Commuter Vanpool Service Irvine Station and Ossur	\$ 148,855	Commuter Service	July 2015	24	-
Lake Forest	Commuter Shuttle Service Irvine Station and Panasonic	\$ 1,226,862	Commuter Service	June 2017	10	-
Mission Viejo	Local Community Circulator	\$ 3,332,879	Local Circulator	October 2016	6	60-day discontinuation of service notice has been drafted. Staff will work with Mission Viejo on the cancellation of service during this transition period. OCTA will work with the City on an appropriate cancellation timeline.
Newport Beach	Balboa Peninsula Seasonal Trolley	\$ 685,454	Seasonal Service	June 2017	19	-
Newport Beach	Balboa Peninsula Seasonal Trolley Expansion	\$ 278,400	Seasonal Service	July 2018	18	-
San Clemente	Summer Weekend Trolley and Seasonal Service	\$ 1,181,393	Special Event	May 2017	46	-
San Clemente	Summer Weekday Trolley and Seasonal Service Expansion	\$ 1,537,200	Seasonal and Special Event	July 2018	25	-
San Juan Capistrano	Special Event and Weekend Summer Trolley Service	\$ 958,642	Seasonal and Special Event	July 2018	26	-

Agency	Service Description	Measure M2 Project V Programmed Funds	Service Type	Service Start Month/Year <sup>2</sup>	Boardings Per Hour of Service (B/HOS) <sup>1</sup>	Next Steps
San Clemente	On-Demand	\$ 914,400	On-Demand Service	October 2016	9	Staff will continue to monitor and measure service performance and assess appropriate next steps for this program which will include evaluation of all project related efforts and existing policies in order to determine how best to support and administer this emerging transit delivery model.

1. Rounded to the next whole number.

2. For this reporting period, usage and performance data reflects April 2018 through July 2018. OCTA is currently working with San Clemente and LYFT, INC., to obtain outstanding data for the months of August and September 2018.

### ACRONYMS

FY - Fiscal year

OCTA - Orange County Transportation Authority

Q4 - Quarter 4 (April - June)

Q1 - Quarter 1 (July - September)

### Minimum Performance Standards:

- Six passenger B/RVH by end of year one (12 months from the first day of operating the service).
- Maintain six B/RVH and meet or exceed ten B/RVH by end of year two.
- Ten B/RVH must then be maintained every year thereafter.

**NOTE: Services below the minimum performance standard are shaded**



# *Measure M2 Community-Based Transit Circulators Program Project V Ridership Report*

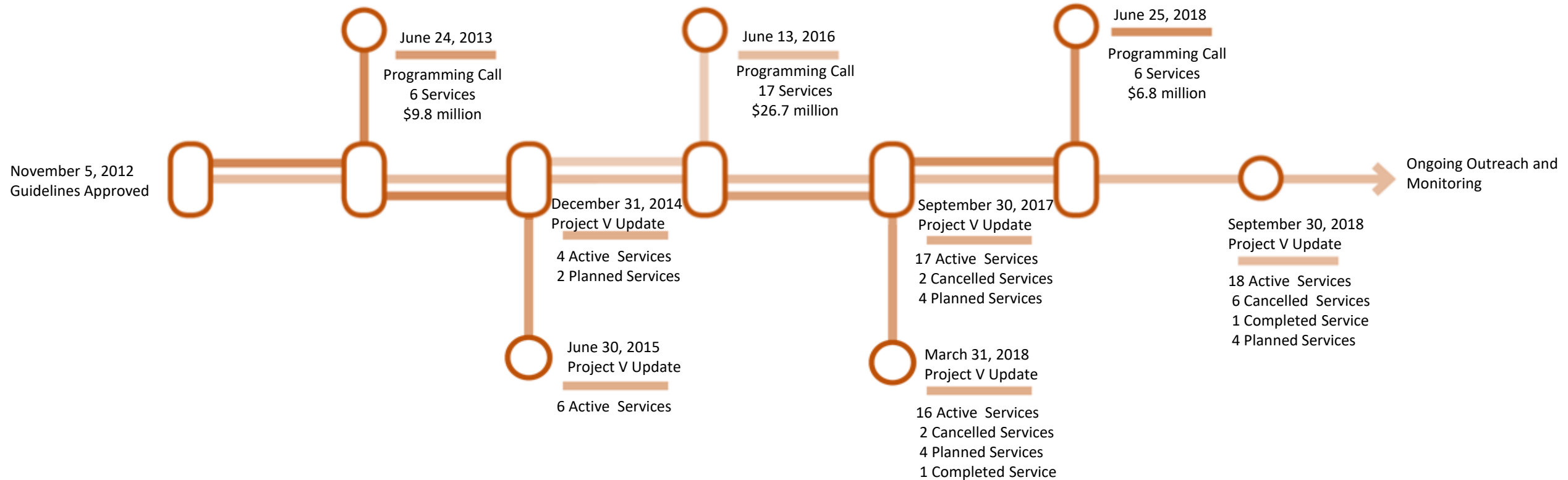


# Overview

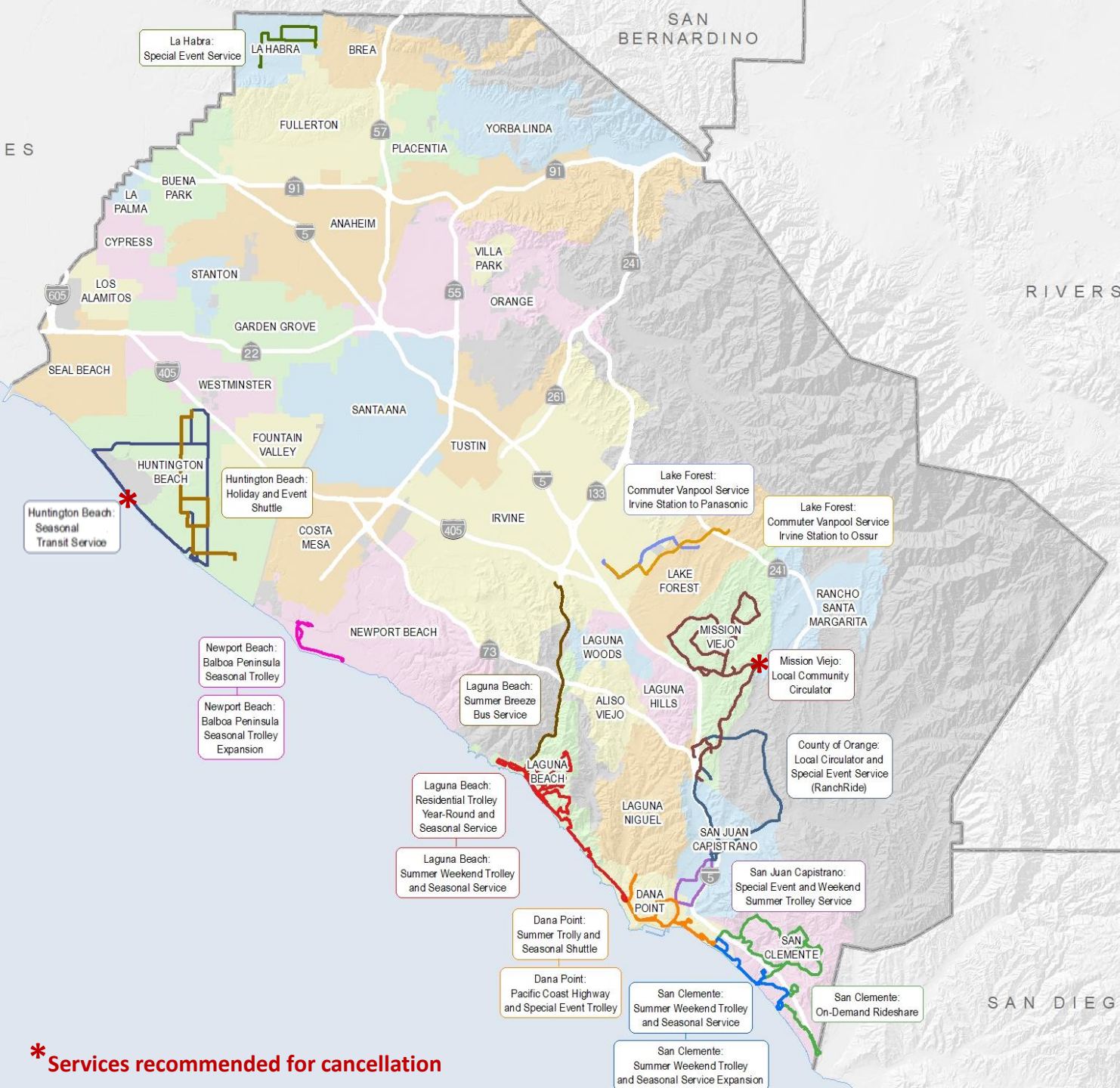




# Background



Call – Call for Projects



# Regional Overview

Active Services through  
September 2018

\* Services recommended for cancellation

# Performance Criteria and Monitoring

## ❖ Key performance indicators:

Year 1	Year 2	Year 3+
Meet or exceed 6 B/RVH by end of Year 1 <sup>1</sup>	Meet or exceed 10 B/RVH by end of Year 2	Maintain 10 B/RVH each reporting period

<sup>1</sup> One Year from the first day of operations

- Under-performing projects subject to cancellation

## ❖ Reporting Requirements:

- Ridership Reports – Quarterly
- Updates provided to Transit Committee and OCTA Board – Semi-annually

B/RVH – Boardings per revenue vehicle hour  
OCTA – Orange County Transportation Authority  
Board – Board of Directors





# Performance



## Services meeting or exceeding the minimum established performance standard:

- County of Orange - Local Circulator & Special Event Service
- Dana Point - Summer Trolley & Seasonal Shuttle
- Dana Point - Pacific Coast Highway & Special Event Trolley
- Huntington Beach - Holiday & Event Shuttle
- Laguna Beach - Summer Weekend Trolley & Seasonal Service
- Laguna Beach - Summer Breeze Bus Service
- Lake Forest - Commuter Vanpool Irvine Station & Ossur
- Lake Forest - Commuter Shuttle Irvine Station & Panasonic
- Newport Beach - Balboa Peninsula Seasonal Trolley
- Newport Beach - Balboa Peninsula Seasonal Trolley Expansion
- San Clemente - Summer Weekend Trolley & Seasonal Service
- San Clemente - Summer Weekday Trolley & Seasonal Service Expansion
- San Juan Capistrano - Special Event & Weekend Summer Trolley Service

## Services trending below the minimum established performance standard:

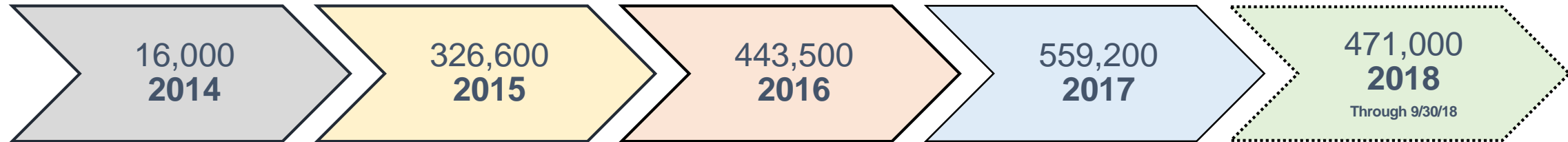
- La Habra - Special Event Service
- Laguna Beach - Residential Trolley Year-Round and Seasonal Service
- San Clemente - On-Demand Services

## Services below the minimum established performance standard:

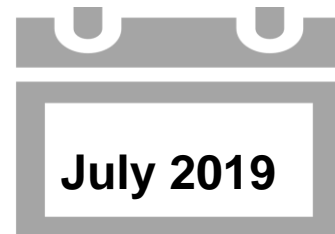
- Huntington Beach - Seasonal Local Transit Service
- Mission Viejo - Local Community Circulator

# Next Steps

- Total Cumulative Boardings 1.82 million



- Continue to work with local agencies and monitor service performance.
- Return to the Transit Committee and the Board with next ridership update in:



# Hydrogen Fuel Cell Electric Bus Update

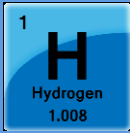




# Air Resources Board Requirements



- ☐ Air Resources Board (ARB) Zero Emission Path
- ☐ December 14, 2018: California ARB passed the Innovative Clean Transit Rule (ICT) requiring that transit agencies transition to a 100 percent zero-emission bus fleet by 2040, with purchase mandates beginning in 2023
- ☐ July 2020: The Orange County Transportation Authority (OCTA) required to submit an initial plan for compliance to ARB
- ☐ OCTA currently exploring both hydrogen fuel-cell and battery-electric buses
- ☐ Hydrogen fuel-cell bus technology testing now underway at OCTA

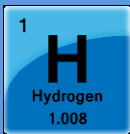


# Background



## ❑ Opportunity

- ❑ The Fuel Cell Electric Bus Commercialization Consortium (FCEBCC) consists of CTE, Alameda-Contra Costa Transit, New Flyer Bus, and Linde Fuel (later changed to Trillium)
- ❑ November 23, 2015: OCTA Board of Directors (Board) approved joining consortium and submitting a grant application to ARB
- ❑ October 20, 2016: Grant awarded by ARB
- ❑ February 13, 2017: Board approved cooperative agreement to accept grant
- ❑ November 13, 2017: Board approved Trillium for the fueling station and New Flyer of America for the ten H2 buses



# Fuel-Cell Electric Bus Testing



## ☐ Hydrogen (H<sub>2</sub>) Fuel-Cell Project

- ☐ Ten fuel-cell electric buses
- ☐ One H<sub>2</sub> fueling station
- ☐ Grant funded

## ☐ Demo H<sub>2</sub> Fuel-Cell Electric Bus

- ☐ Center for Transportation and the Environment (CTE)
- ☐ Two-year demo at no cost to OCTA
- ☐ Grant funded





# Current Status

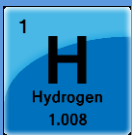


## H2 Buses

- ☐ First bus was received September 25, 2018
- ☐ Rejected due to various discrepancies
- ☐ Production buses to be delivered shortly after first bus is accepted
- ☐ Estimated to receive all buses by the end of March 2019

## H2 Fuel Station

- ☐ Currently under construction
- ☐ Various contractor delays
- ☐ Major equipment scheduled to be installed early March 2019
- ☐ Estimated time of completion set for late March 2019



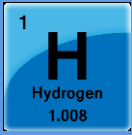
# H2 Bus Configuration



- ☐ Meets all operational requirements
- ☐ New Flyer Excelsior platform
- ☐ All-electric drive
- ☐ Warranty: Two year, 100,000-mile bumper-to-bumper
- ☐ Bus range: 300 miles
- ☐ Refueling time: Six to ten minutes





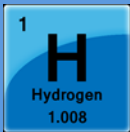


# Fuel Station Configuration



- ❑ Located at the Santa Ana Bus Base
- ❑ Liquid H<sub>2</sub> station
- ❑ Capacity for 40-50 buses
- ❑ Scalable to 100 buses
- ❑ Two fueling dispensers





# Funding Breakdown



**ARB grant \$12.2 million**

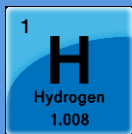
**South Coast Air Quality Management District grant \$1 million**

- ☐ Provides for the incremental capital cost difference
- ☐ \$4.8 million – fueling station
- ☐ \$710,000 – utility upgrades
- ☐ \$7.3 million – ten H2 buses
- ☐ \$414,000 - facility upgrades for H2 detection

**OCTA Cost Share \$9.4 million**

- ☐ \$5.6 million – ten H2 buses
- ☐ \$3.8 million – in-kind contribution

**Project Total Cost \$22.6 million**



## Next Steps



- ☐ Monitor and review the performance
- ☐ Report back to the Board
- ☐ Continue efforts to test other technologies



# Questions?

