Los Angeles County
Metropolitan Transportation Authority

TECHNICAL ADVISORY COMMITTEE
University Room, 4th Floor

1. Call to Order/Roll Call  Action (Jill Liu, Alex Gomez)

2. Agenda Reports by Standing Committees
   - Bus Operations  Information (James Lee)
   - Local Transit Systems  (Sebastian Hernandez)
   - Streets and Freeways  (Annelle Albarran)
   - TDM/Sustainability  (Mark Hunter)
   - Attachment 1: Subcommittee Agendas
   - Attachment 2: Subcommittee Actions
     5 min

3. Chairperson’s Report  Information (Jill Liu)
     5 min

4. Consent Calendar  Action
   - Approval of Minutes
   - Attachment 3: Draft February 5, 2020 Minutes

5. Legislative Update  Information (Raffi Hamparian/Michael Turner)
     15 min

6. MicroTransit Pilot Project  Information (Nazaneen Habib)
     15 min
     - Attachment 4: MicroTransit Pilot Project

7. Goods Movement Master Plan  Information (Michael Cano/Akiko Yamagami)
     15 min
     - Attachment 5: Goods Movement Strategic Plan Update

8. Measure Up Update  Information (Eva Pan Moon)
     15 min
     - Attachment 6: Measure Up ClearGuide
9. Purple Line Extension First/Last Mile Plan  Information
   15 min  (Jacob Lieb)
   Attachment 7: Purple Line Ext. First/Last Mile Presentation

10. Adopt a Bike Program—Metro Open Streets Grant Program Cycle 4  Information
    15 min  (Frank Ching/Brett Thomas)
    Attachment 8: Metro Open Streets Grant Program Cycle 4 Presentation

11. ATP Update  Information
    5 min  (Anna Moneymaker)
    Attachment 9: ATP Update Presentation

12. Other Business

13. Adjournment

TAC Minutes and Agendas can be accessed at: http://www.metro.net/about/tac/

Please call Alex Gomez at (213) 922-7573 or e-mail GomezA5@metro.net with questions regarding the agenda or meeting. The next meeting is April 1 in the William Mulholland Conference Room, 15th Floor.
Attachment 1

Subcommittee Agendas
Agenda

Los Angeles County
Metropolitan Transportation Authority

BUS OPERATIONS SUBCOMMITTEE
Union Station Conference Room – 3rd Floor

1. Call to Order
   (1 minute)
   Action
   Tracy Beidleman

2. Approval of January 21, 2020 Minutes
   (1 minute)
   Action
   BOS

3. Chair’s Report
   (5 minutes)
   Information
   Tracy Beidleman

4. Metro Report
   (5 minutes)
   Information
   Mercedes Meneses

5. SCRTTC Presentation
   (10 minutes)
   Information
   Dave Stumpo

6. LIFE Update
   (10 minutes)
   Information
   Armineh Saint

7. FY21 FAP Revenue Estimates
   (10 minutes)
   Information
   Manijeh Ahmadi

8. Legislative Update
   (15 minutes)
   Information
   Raffi Hamparian/Michael Turner

9. FTA Update
   (10 minutes)
   Information
   Charlene Lee Lorenzo/Arianna Valle/Stacy Alameida

10. Access Update
    (5 minutes)
    Information
    Matthew Avancena
11. Transit Industry Debriefing/Updates
   (5 minutes)

12. New Business
   (5 minutes)

13. Adjournment

Information Items:

90-Day Rolling Agenda
Combined FY18-FY19 Fund Balances
FY18 Section 5307 Fund Balance
FY19 Section 5307 Fund Balance
FY20 Subsidy Tracking Matrix
FY20 Measure M Quarterly Report Due Dates
FY20 Summary of TDA & STA Capital Claims
FY20 TDA/STA/SB1 Claim Summary
FY20 Summary of Invoices
BOS Statement of Work
Los Angeles BOS Budget

BOS Agenda Packages can be accessed online at:
https://www.metro.net/about/bos/

Please call MERCEDES MENES at 213-922-2880 or email at MenesesM@metro.net if you have questions regarding the agenda or meeting. The next BOS meeting is scheduled for Tuesday, March 17, 2020, at 9:30 am in the William Mulholland Conference Room, 15th Floor of the Metro Headquarters Building.
Agenda

Los Angeles County Metropolitan Transportation Authority

Streets and Freeways Subcommittee

William Mulholland Conference Room – 15th Floor

1. Call to Order
   1 min  Action (Charles Herbertson)

2. Approval of Minutes
   10 min  Action (Subcommittee)
   Attachment 1: January 16, 2020 Minutes
   Attachment 2: Attendance Sheet/Sign-In Sheet

3. Chair Report
   10 min  Information (Charles Herbertson)

4. Metro Report
   5 min  Information (Anelle Albarran)

5. Caltrans Report
   10 min  Information (Steve Novotny)

6. Automated Bus Lane Enforcement
   15 min  Information (Nolan Borgman)

7. Los Angeles County Goods Movement Strategic Plan
   15 min  Information (Akiko Yamagami)

8. Open Streets Program
   15 min  Information (Brett Atencio Thomas)
9. Measure Up – Update
   **10 min**
   Information *(Eva Moon)*

10. ATP Update
    **5 min**
    Information *(Anna Lee)*

11. CTC Update
    **5 min**
    Information *(Anna Lee)*

12. Legislative Update
    **15 min**
    Information *(Raffi Hamparian/ Michael Turner)*

13. New Business
    **5 min**

14. Adjournment
    **1 min**

The next meeting for the Streets and Freeways Subcommittee will be held tentatively on Thursday, March 19, 2020 at 9:30 a.m. on the 15th floor, William Mulholland Conference Room. Please contact Annelle Albarran at (213) 922-4025 should you have any questions or comments regarding this or future agendas.

Agendas can be accessed online at: [http://www.metro.net/about/sfs/](http://www.metro.net/about/sfs/)
NOTE TIME:  1:30 PM

Thursday, February 20, 2020
1:30 P.M.

Agenda - Revised

Los Angeles County
Metropolitan Transportation Authority

LOCAL TRANSIT SYSTEMS SUBCOMMITTEE
Meeting room – Palisades Conf. Room, 8th Floor, Metro

Webinar Link To be posted when confirmed:
Please join my meeting from your computer, tablet or smartphone.
https://global.gotomeeting.com/join/625064421

This meeting is locked with a password: Metro
(last time this was METRO and it could be that again. Try Metro first, then all caps)

You can also dial in using your phone.
United States: +1 (408) 650-3123

Access Code: 625-064-421

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<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Call to Order</td>
<td>Action Sebastian Hernandez, Chair</td>
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<td>2.</td>
<td>Approval of Minutes (January)</td>
<td>Action Sebastian Hernandez, Chair</td>
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<td>3.</td>
<td>Appointment of TAC Alternate – Steven Mateer</td>
<td>Action Sebastian Henandez, Chair</td>
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<td>4.</td>
<td>TAP Update -She needs to postpone this to next month</td>
<td>Information Robin O’Hara, Metro</td>
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<td>5.</td>
<td>Traffic Reduction Study (formerly “Congestion Pricing Project”)</td>
<td>Information Tham Nguyen, Metro</td>
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<td>6.</td>
<td>Microtransit Project (tentative presentation)</td>
<td>Information TBD, Metro</td>
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<td>7.</td>
<td>1st DRAFT of FY21 Subregional Incentive Fundmarks (handout)</td>
<td>Information Susan Richan, Metro</td>
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<td>8.</td>
<td>New Business: 1. TAC update; 2. BOS Update, 3. TAC</td>
<td>Information Sebastian Henandez, Chair</td>
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Reminder:
Please mute phones so background noise won’t interfere with meeting

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

Metro will validate your Parking ticket for this meeting’s attendance. Take your parking ticket to the 15th floor for validation (it is sometimes helpful to also have this agenda with you).
Attachment 2

Disposition of Subcommittee Actions
Disposition of Subcommittee Actions

February 2020

Bus Operations Subcommittee:

- **5307 Discretionary Guidelines Review – Action:** 5307 Discretionary Guidelines, with noted corrections, were approved.
- Approved the January 2020 meeting minutes

Local Transit Systems Subcommittee:

- Appointed Steven Mateer as TAC alternate for LTSS
- Approved the January 2020 meeting minutes

Streets and Freeways Subcommittee:

- Approved the January 2020 meeting minutes

TDM/Sustainability Subcommittee:

- Did not meet in February 2020
Attachment 3

February 5, 2020 TAC Minutes

February 5, 2020 Sign-In Sheets
**LACMTA Technical Advisory Committee**  
Wednesday, February 5, 2020 9:30 a.m.  
Meeting Minutes

**Members Present:** Rich Dilluvio (Bicycle Coordinator), Tracy Beidleman (BOS), Jane Leonard (BOS), Lt. Saul Gomez (CHP), Steve Novotny (Caltrans), Ellen Blackman (Citizen Representative on ADA), Michelle Mowery (City of Long Beach), Kari Derderian (City of LA), Carlos Rios (City of LA), Victor Cortes (City of LA), Richard Marshalian (County of LA), Mario Rodriguez (County of LA), David Kriske (Arroyo Verdugo Cities), Joshua Nelson (San Gabriel Valley COG), Jason Smisko (San Fernando Valley COG), Gilbert Marquez (South Bay Cities COG), David Feinberg (Westside Cities COG), Sebastian Hernandez (LTSS), Luz Echavarria (LTSS), Carolyn Kreslake (Metro), Valerie Watson (Pedestrian Coordinator), Mark Hunter (TDM/Sustainability), Jill Liu (Metro), Alex Gomez (Metro), Cindy Cho (Metro)

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<thead>
<tr>
<th>Agenda Item</th>
<th>Major Discussion Points</th>
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<tr>
<td><strong>1. Call to Order/Roll Call</strong></td>
<td>Jill Liu called meeting to order at 9:30 a.m. Alex Gomez took roll and declared quorum present.</td>
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<td><strong>2. Agenda Reports by Standing Committees</strong></td>
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</table>
| **Bus Operations Subcommittee (BOS)** | **-** Last meeting held in January; next meeting will be held on February 18, 2020  
  **-** January Meeting Updates:  
  ▪ Section 5307 discretionary fund application packages to be released in March  
  ▪ AB 1350 free youth transit passes  
  ▪ FTA federal register pending for release FY 20  
  ▪ NextGen Bus Plan |
| **Local Transit Systems Subcommittee (LTSS)** | **-** Last meeting held in January; next meeting will be held on February 20, 2020  
  **-** January Meeting Updates:  
  ▪ NextGen Bus Plan and next steps  
  ▪ Local return database |
| **Streets and Freeways Subcommittee** | **-** Last meeting held in January; next meeting will be held on February 20, 2020  
  **-** January Meeting Updates:  
  ▪ CTC/ATP  
  ▪ Metro Active Transport (MAT) Program  
  ▪ Purple Line Extension Project  
  ▪ Metro Highway Hot Spots Program (SR-91/I-405/I-605) |
| **Transportation Demand Management/ Sustainability Subcommittee** |  |

TAC Minutes, February 5, 2020
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<th>Agenda Item</th>
<th>Major Discussion Points</th>
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<td>- No meeting held in January; next meeting will be held on March 18, 2020</td>
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3. Chairperson’s Report

**Recap of Metro January 23, 2020 Board Meeting**
- Board directed Metro CEO and staff to 1) estimate costs of providing free transit pass for LA County students and assess its impacts on farebox revenues, ridership level, customer experience, and operational issues, with an update to the Board in April, 2) conduct outreach to municipal operators that currently have service supported by Metro formula funds connected to K-12 schools, and 3) provide a separate report to the Board by June on what it takes to provide no-cost transit programs for LA Community College District and its College Promise program
- Board approved to establish a K-12 pricing of $0.75 per boarding for homeless students using the Universal Student Pass
- Board approved the Metro Active Transport, Transit and First/Last Mile (MAT) Program Cycle 1 Solicitation
- Board directed OMB to report by April regarding funding options for capital portion of NextGen Transit First plan
- Board approved the I-10 ExpressLanes Busway HOV5+ Pilot Implementation Plan

**Upcoming February 19th Planning and Programming Committee Meeting Items:**
- Las Virgenes/Malibu Subregion’s inter-program borrowing and programming of additional $4.1M from Measure M Multi-Year Subregional Program (MSP) Highway Program to Active Transportation Program and programming of additional $7.2M within the capacity of Measure M Highway Program

**TAC Survey**
- Responses will be reviewed and incorporated into the plan for the year

**City of Long Beach Alternate**
- Michelle Mowery, TAC alternate for City of Long Beach will retire in February and Paul Van Dyk will be her replacement

4. Consent Calendar

Mark Hunter made a motion to approve the January TAC minutes and Sebastian Hernandez seconded. Minutes were approved with abstentions from Jane Leonard, Tracy Beidleman, Michelle Mowery, and Gilbert Marquez.

5. CTC & ATP Update (Shelly Quan)

**CTC Update**
- CTC elected Paul Van Konynenburg as Commission Chair and Hilary Norton as Vice Chair, effective March 1st, 2020

**ATP Update**
- ATP Cycle 5
  - $445M across FY22-FY25
  - Schedule
    - Spring 2020 - Ongoing guidelines/application development workshops
    - March 25th-26th - Call for Projects
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<td>- June 15th - Applications due</td>
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<td>- December 2nd-3rd - CTC adopts Statewide projects</td>
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<td>- May 2021 - CTC adopts MPO projects</td>
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<td>- Metro ATP Grant Assistance</td>
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<td>- Timeline</td>
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<td>- Feb 5th - Project selection</td>
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<td>- Feb 10th-24th - Project sponsor submits existing project data/information</td>
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<td>- March 2nd-26th - Consultants and project sponsors meet</td>
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<td>- March 26th-June 15th - Metro consultant prepares application and project sponsor reviews drafts</td>
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<td>- Local Streets and Roads Deadlines</td>
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<td>- Initial project lists must be submitted by May 1st, 2020 on CalSMART. Cities must adopt project lists through resolution before May 1st, 2020</td>
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<td>- Needs Assessment Survey will be released February on agencies’ technical and financial needs</td>
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6. Traffic Reduction Study (Tham Nguyen)

**Background**
- The Traffic Reduction Study, previously referred to as Congestion Pricing Feasibility Study, will look at how we can achieve the outcomes we want to achieve, using Metro’s 10-year Strategic Plan, Vision 2028
- The visionary outcomes for 2028 is to double the percent usage of transportation modes other than driving alone, including transit, walk, bike, shared-ride, and carpool modes
- Congestion pricing models including cordon pricing, VMT pricing, and corridor pricing will be examined while referring to best practices around the world

**Study Highlights**
- Conduct feasibility study to identify a pilot program
- Develop grassroots support through extensive community and public engagement
- Develop equity strategy from the beginning to achieve equitable outcomes for all
- Build regional coalition to solidify critical partnerships necessary for delivering the project
- Identify additional travel options to accompany pilot program including transit services, carpooling, ridesharing, etc.
- Build off existing efforts and research in the LA region and best practices learned
- Engage diverse set of audiences in the process (public, communities affected, key stakeholders, etc.)
- Leverage existing Metro advisory groups like the PAC and TAC and complement that with advisory panels including equity and congestion pricing experts

**Next Steps**
- Study development will take up to 24 months before going to the Board and moving forward with next phase of implementation
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<td><strong>7. Green Line Extension to Torrance (Dolores Roybal)</strong></td>
<td><strong>Background</strong>&lt;br&gt;- Metro completed the Supplemental Alternative Analysis (SAA) study in 2018 and identified two alternatives to continue studying in the environmental phase. The two alternatives are: 1) Metro right-of-way (ROW) overcrossing and 2) Hawthorne Blvd to 190th station&lt;br&gt;&lt;br&gt;<strong>Current Status</strong>&lt;br&gt;- In January 2020, the Board approved to move forward to study the two alternatives, to contract for advanced conceptual engineering during draft environmental phase, with optional services for NEPA EIS, preliminary engineering and bid services if needed&lt;br&gt;&lt;br&gt;<strong>Next Steps</strong>&lt;br&gt;- February 2020 - Project kick-off and initiate environmental process&lt;br&gt;- Spring 2020 - CEQA Scoping Meetings&lt;br&gt;- As this project is one of the pillar projects, the plan is to be expeditious and begin revenue service by 2028</td>
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<p>| 8. Eastside Phase 2 (Jenny Cristales-Cevallos) | <strong>Background</strong>&lt;br&gt;- 2009 - over 47 alternatives analyzed including different routes, modes, stations, and configurations&lt;br&gt;- 2014 - evaluated two light rail alternatives during draft EIS/EIR and locally preferred alternative (LPA) was not selected&lt;br&gt;- 2017 - post draft EIS/EIR technical study&lt;br&gt;- 2019 - reinitiated environmental process and three build alternatives are being evaluated&lt;br&gt;- The project is one of the four pillar projects identified to be in operation by 2028&lt;br&gt;&lt;br&gt;<strong>Project Funding Timeline per Measure M</strong>&lt;br&gt;- Cycle 1 total of $3B - groundbreaking 2029 and expected opening date 2035 for first alignment&lt;br&gt;- Cycle 2 total of $3B - groundbreaking 2053 and expected opening date 2057 for second alignment&lt;br&gt;&lt;br&gt;<strong>Scoping Comment Themes</strong>&lt;br&gt;- General support for all three build alternatives&lt;br&gt;- Opposition to at-grade segment of SR 60 alignment from South Atlantic Blvd to Findlay Ave&lt;br&gt;- Concerns raised over environmental justice and equal consideration for undergrounding in lower income areas of LA County |</p>
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<td><strong>Focus Technical Studies Findings</strong></td>
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<td>- SR 60 Alternative bridge crossing, Peck Road Station relocation, station concept refinement, and at-grade design</td>
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<td>o Longstanding issues with Caltrans, US EPA, SoCal Edison, and US Army Corps of Engineers</td>
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<td>o Improvements require relocation of stations and guideway</td>
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<td>o Utility corridors conflicts</td>
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<td>o Impacts to sensitive land uses</td>
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<td>o Constrained SR 60 maintenance storage facility</td>
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<td>- Washington Alternative Tunnel portal location and design variation</td>
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<td>o Bridge crossings require permitting</td>
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<td>o Underground tunnel- Mixmaster, utility corridor, freight tracks</td>
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<td>o Tunnel Boring Machine launch and extraction sites</td>
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<td>- Combined Alternative junction design and rail operations</td>
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<td>o Additional property acquisitions</td>
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<td>o Adds approximately $1.3-1.7B to the capital costs</td>
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<td><strong>Metro Policy Compatibility</strong></td>
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<td>- Staff looked at project’s compatibility to Transit Oriented Communities (TOC) and First/Last Mile (FLM) Policies:</td>
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<td>o SR 60 Alternative lacks direct connections to residential communities, has suburban street network, large block sizes, numerous freeway on/off ramps and freeway underpasses, serves fewer minority low-income and transit-dependent populations, and demonstrates less TOC and FLM compatibility</td>
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<td>o Washington Alternative has stations planned in areas with connected streets for easier walking, biking and transit-riding, serves more economically disadvantaged communities, and demonstrates greater TOC and FLM compatibility</td>
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<td><strong>Next Steps</strong></td>
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<td>- Currently conducting community meetings</td>
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<td>- End of February, staff will return to the Board to recommend the Washington Alternative as the viable option and withdraw the other two alternatives</td>
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<td>- Upon Board approval, staff will proceed with CEQA only environmental clearance and reinitiate NEPA analysis if needed</td>
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<td>- Staff will continue to work towards solving mobility challenges, identify short- and long-term solutions in advance of project Cycle 2 funding, and prepare a feasibility study to evaluate options to improve mobility in and around the SR 60 freeway</td>
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<th>9. NextGen Bus Plan (Stephen Tu)</th>
<th>Background</th>
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<td>- Purpose of this bus study is to realign the bus network to address new travel patterns, new residents, and new destinations and be a competitive and attractive bus service that is fast, frequent, and reliable</td>
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<td>Agenda Item</td>
<td>Major Discussion Points</td>
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<tr>
<td>- Agenda Item</td>
<td><strong>Lessons Learned and Service Concepts</strong></td>
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<td>- Extensive public outreach was conducted and input led to service concepts</td>
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<td>- Lessons learned: 84% of LA County residents have used transit at least once in the past year; fast/frequent/reliable service is key; current system is not competitive to get people where they want to go; greatest opportunity to grow ridership is between midday and evening when trips are short distance; need to integrate Equity Framework</td>
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<td>- Service concept: Minimize disconnected segments; create competitive transit network; build network reflecting travel; improve service for midday, evening and weekend; provide better service in equity-focused areas</td>
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<td><strong>Identified Capital Improvements</strong></td>
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<td>- Speed and reliability - real-time operations, transit priority, consistent and simple routing, bus stop consolidation</td>
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<td>- Stop access and waiting - thinking about How Women Travel Report, improving comfort and security, making improvements outlined in Metro’s Transfer Design Guide</td>
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<td>- Boarding and riding - all-door boarding, easy boarding access, on-board technology, zero-emissions integration</td>
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<td>- Optimize bus terminals - improve bus arrival predictability, create regional hubs connecting transit to microtransit and micromobility, reduce unnecessary operating costs</td>
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<td><strong>Timeline</strong></td>
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<td>- Currently Metro staff is reconnecting with customers to realign services to create a Transit First LA County that prioritizes transit and transit supportive infrastructure (signal priorities, bus bulb-outs, etc.) and looking at equity focused communities (limited English speaking households, youth, etc.)</td>
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<td>- Jan 2020 - Board authorize release draft service plan for review</td>
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<td>- Feb 2020 - Conduct public workshops</td>
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<td>- June 2020 - Public hearings</td>
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<td>- Aug 2020 - Service Council approval of final service plan</td>
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<td>- Sept 2020 - Board approval of final service plan</td>
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<td>- Dec 2020 - New service plan begins (Phase 1)</td>
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<td>11. Other Business</td>
<td>Jane Leonard announced new leadership team members of Culver City Transportation</td>
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<td>12. Adjournment</td>
<td><strong>Meeting was adjourned at 11:00 a.m. Next meeting will be on March 4, 2020 at 9:30 a.m.</strong></td>
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<td>AUTOMOBILE CLUB OF CALIFORNIA</td>
<td>1. Marianne Kim/ Stephen Finnegan</td>
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<td>BICYCLE COORDINATOR</td>
<td>1. Rich Dilluvio/ Hannah Woo</td>
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<td>BUS OPERATIONS SUBCOMMITTEE (BOS)</td>
<td>1. Tracy Beidleman/ James Lee</td>
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<td>2. Jane Leonard/ Viviana Castillo</td>
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<td>CALIFORNIA HIGHWAY PATROL</td>
<td>1. Lt. Saul Gomez/ Sgt. Ray Abramian</td>
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<td>CALTRANS</td>
<td>1. Paul Marquez/ Steve Novotny</td>
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<td>2. Greg Farr/ Kelly Lamare</td>
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<td>CITIZEN REPRESENTATIVE ON ADA</td>
<td>1. Ellen Blackman/ Vacant</td>
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<td>CITY OF LONG BEACH</td>
<td>1. Carl Hickman/ Michelle Mowery</td>
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<td>CITY OF LOS ANGELES</td>
<td>1. Corinne Ralph / Kari Derderian</td>
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<td>2. Carlos Rios / Michael Hunt</td>
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<td>3. Kevin Minne / Victor Cortes</td>
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<td>COUNTY OF LOS ANGELES</td>
<td>1. Richard Marshallian / Ayala Ben-Yehuda</td>
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<td>2. Mary Reyes / Mario Rodriguez</td>
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<td></td>
<td>3. David B. MacGregor / Mario Rodriguez</td>
</tr>
<tr>
<td>LEAGUE OF CALIFORNIA CITIES</td>
<td>1. David Kriske / Yazdan Emrani</td>
</tr>
<tr>
<td>Arroyo Verdugo Cities</td>
<td>2. Lisa Rapp / Ed Norris</td>
</tr>
<tr>
<td>Gateway Cities COG</td>
<td>3. Rob DuBoux / Elizabeth Shavelson</td>
</tr>
<tr>
<td>Las Virgenes Malibu COG</td>
<td>4. Mike Bohen / Candice Vander Hyde</td>
</tr>
<tr>
<td>North Los Angeles County</td>
<td>5. Joshua Nelson / Frank A. Lopez</td>
</tr>
<tr>
<td>San Gabriel Valley COG</td>
<td>6. Jason Smisko / Vacant</td>
</tr>
<tr>
<td>San Fernando Valley COG</td>
<td>7. Dr. Maria Slaughter / Gilbert</td>
</tr>
<tr>
<td>South Bay Cities COG</td>
<td>8. David Feinberg / Hany Demitri</td>
</tr>
<tr>
<td>Westside Cities COG</td>
<td></td>
</tr>
<tr>
<td>AGENCY</td>
<td>MEMBER/ALTERNATE (Please check box)</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>LOCAL TRANSIT SYSTEMS SUBCOMMITTEE (LTSS)</td>
<td>1. Sebastian Hernandez/ ☐ Vacant</td>
</tr>
<tr>
<td></td>
<td>2. ☐ Luz Echavarria/ ☐ Hali Aziz</td>
</tr>
<tr>
<td>METROPOLITAN TRANSPORTATION AUTHORITY</td>
<td>1. Jill Liu/ ☐ Alex Gomez</td>
</tr>
<tr>
<td>(Metro)</td>
<td>Countywide Planning &amp; Development</td>
</tr>
<tr>
<td></td>
<td>2. ☐ Diane Corral-Lopez/ ☑ Carolyn</td>
</tr>
<tr>
<td></td>
<td>Kreslake</td>
</tr>
<tr>
<td></td>
<td>Metro Operations</td>
</tr>
<tr>
<td>PEDESTRIAN COORDINATOR</td>
<td>1. ☑ Valerie Watson/ ☐ Dale Benson</td>
</tr>
<tr>
<td>PUBLIC HEALTH REPRESENTATIVE (Ex-Officio)</td>
<td>1. ☐ Vacant/ ☐ Vacant</td>
</tr>
<tr>
<td>SOUTHERN CALIFORNIA REGIONAL RAIL</td>
<td>1. ☐ Anne Louise Rice/ ☐ Karen Sakoda</td>
</tr>
<tr>
<td>AUTHORITY (SCERRA - Ex-Officio)</td>
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<tr>
<td>SOUTH COAST AIR QUALITY</td>
<td>1. ☐ Eyvonne Drummonds/ ☐ Kathryn</td>
</tr>
<tr>
<td>MANAGEMENT DISTRICT (SCAQMD - Ex-Officio)</td>
<td>Higgins</td>
</tr>
<tr>
<td>SOUTHERN CALIFORNIA</td>
<td>1. ☐ Warren Whiteaker/ ☐ Annie Nam</td>
</tr>
<tr>
<td>ASSOCIATION OF GOVERNMENTS (SCAG - Ex-Officio)</td>
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<tr>
<td>GOODS MOVEMENT REPRESENTATIVE (Ex-Officio)</td>
<td>1. ☐ Lupe Valdez/ ☐ LaDonna DiCamillo</td>
</tr>
<tr>
<td>TRANSPORTATION DEMAND MANAGEMENT/</td>
<td>1. ☐ Mike Bagheri/ ☐ Vacant</td>
</tr>
<tr>
<td>SUSTAINABILITY SUBCOMMITTEE</td>
<td>☐ Mark Hunter/ ☐ Vacant</td>
</tr>
<tr>
<td>Name</td>
<td>Agency</td>
</tr>
<tr>
<td>--------------</td>
<td>------------</td>
</tr>
<tr>
<td>Paul Von Dye</td>
<td>Co Long Beach</td>
</tr>
<tr>
<td>Jimmy Smith</td>
<td>CT</td>
</tr>
<tr>
<td>David Co</td>
<td>Metro</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------</td>
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<tr>
<td>Marianne Kim/Stephen Finnegan (A)</td>
<td>AUTO CLUB</td>
</tr>
<tr>
<td>Rich Dilluvio/Hannah Woo (A)</td>
<td>BICYCLE COORDINATOR</td>
</tr>
<tr>
<td>Tracy Beideman/James Lee (A)</td>
<td>BOS SUBCOMMITTEE</td>
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<td>Jane Leonard/Robert Portillo (A)</td>
<td>BOS SUBCOMMITTEE</td>
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<tr>
<td>Lt. Saul Gomez/Sgt. Ray Abramiab (A)</td>
<td>Chp</td>
</tr>
<tr>
<td>Paul Marquez/Steve Novotny (A)</td>
<td>CALTRANS</td>
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<tr>
<td>Greg Farr/Kelly Lamare (A)</td>
<td>CALTRANS</td>
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<tr>
<td>Eileen Blackman/Vacant (A)</td>
<td>CITIZEN REP ON ADA</td>
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<td>Carl Hickman/Michelle Mowery (A)</td>
<td>LONG BEACH</td>
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<tr>
<td>Corinne Ralph/Kari Derderian (A)</td>
<td>CITY OF LOS ANGELES</td>
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<td>Carlos Rios/Mike Hunt (A)</td>
<td>CITY OF LOS ANGELES</td>
</tr>
<tr>
<td>Kevin Minne/Victor Cortes (A)</td>
<td>CITY OF LOS ANGELES</td>
</tr>
<tr>
<td>Richard Marshallan/Ayala Ben-Yehuda (A)</td>
<td>COUNTY OF LOS ANGELES</td>
</tr>
<tr>
<td>Mary Reyes/Mario Rodriguez (A)</td>
<td>COUNTY OF LOS ANGELES</td>
</tr>
<tr>
<td>David MacGregor/Mario Rodriguez (A)</td>
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<td>Rob DuBois/Elizabeth Shavelson (A)</td>
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<td>SAN GABRIEL VALLEY COG</td>
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<td>SAN FERNANDO VALLEY COG</td>
</tr>
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<td>Dr Maria Slaughter/Gilbert Marquez (A)</td>
<td>SOUTH BAY CITIES COG</td>
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<td>David Feinberg/Hanny Demitri (A)</td>
<td>WESTSIDE CITIES</td>
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<td>Sebastian Hernandez/Perrin Goodman (A)</td>
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<td>Luz Echavarria/Hal Ariz (A)</td>
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<tr>
<td>Mike Bagheri/Vacant (A)</td>
<td>TDM/SUST SUBCOMMITTEE</td>
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<tr>
<td>Mark Hunter/Vacant (A)</td>
<td>TDM/SUST SUBCOMMITTEE</td>
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</table>
Attachment 4

MicroTransit Pilot Project
MicroTransit Pilot Project
What is MicroTransit?

- More than 50% of all trips in Los Angeles County are short (1-5 mile), solo trips using a private car service or driven alone.
- Metro captures few of these trips today.
- To increase ridership, Metro seeks to pair the best of public operations with the best of private technology.
- This new service will maximize new technology to improve the customer experience of Metro’s current customers and support the use of Metro’s existing suite of services.

<table>
<thead>
<tr>
<th>Service</th>
<th>VIA</th>
<th>Metro</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-demand Ridesharing</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>Mobile Application</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>First/Last Mile</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>End to End Trips</td>
<td>✅</td>
<td>✅</td>
</tr>
<tr>
<td>Metro Call Center</td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td>40% Wheelchair Accessible Vehicles</td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td>TAP Integration</td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td>Transit Watch Integration</td>
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<td>✅</td>
</tr>
<tr>
<td>Feasibility Studies Completed</td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td>SMART Operators with Specialized Training</td>
<td></td>
<td>✅</td>
</tr>
<tr>
<td>Staff On-Location</td>
<td></td>
<td>✅</td>
</tr>
</tbody>
</table>
How does MicroTransit Work?

- Shared rides ordered through a regional call center, booked with a mobile application, and/or arranged using an internet browser.
- All MicroTransit operators are Metro employees.
- Service supplements the NextGen Bus Plan.
- Offers quick boards at priority transit stations and stops.
- Five types of vehicles are featured in mixed fleet: Transit 150, Transit 350 (electric), Grand Caravan, Metris and Sprinter.
- Provides customized features for individuals and families with all levels of mobility.
MicroTransit Roadmap

INDUSTRY-WIDE RESEARCH

COMPETITIVE PROCUREMENT

TESTING FULLY PRIVATIZED MODEL

SERVICE FEASIBILITY STUDIES

NEXTGEN ALIGNMENT

OPERATING RULES AND PROCEDURES

OPERATING PLAN
Prioritizing Safety First

- Metro employee operators will be vetted and trained with an emphasis on customer service and security.

- Up to 10 weeks of in-person operator training created in coordination with:
  - Women & Girls Governing Council
  - Government Alliance on Racial Equity
  - Office of Civil Rights
  - Access Services
  - Understanding How Women Travel Study Team
  - The Equity Platform Project Leads

- Real-time data on vehicle locations, drop offs and pick-up times.

- Security technology with live monitoring of vehicles.
Factors for Identifying Pilot Locations

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Connectivity:</td>
<td>up to 2/3 of trips will be transfers to other public operations</td>
</tr>
<tr>
<td>Economic Mobility:</td>
<td>increases access to jobs, educational resources/institutions</td>
</tr>
<tr>
<td>Major Trip Generators:</td>
<td>supports employment centers, hospitals, universities, schools</td>
</tr>
<tr>
<td>Priority Use Cases:</td>
<td>medical, students, retail, commuting, child care pick-ups</td>
</tr>
<tr>
<td>Customer Demand:</td>
<td>can achieve moving 10 people an hour per vehicle</td>
</tr>
<tr>
<td>Shared Usage:</td>
<td>can achieve 70% shared rides</td>
</tr>
<tr>
<td>Geographic Equity:</td>
<td>tests variety of unique neighborhoods, communities</td>
</tr>
<tr>
<td>Vehicle Miles Traveled:</td>
<td>reduces solo occupancy short trips within the County</td>
</tr>
<tr>
<td>Community Partnerships:</td>
<td>has engaged businesses, cities, community based organizations</td>
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</table>
MicroTransit Operated by Metro

Service available 7 days a week
Initial soft launch (60 days) at 12 hour service span per day

<table>
<thead>
<tr>
<th>Year</th>
<th>Area</th>
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<tbody>
<tr>
<td>Summer 2020</td>
<td>• Watts/Willowbrook</td>
</tr>
<tr>
<td>Fall 2020</td>
<td>• Northwest San Fernando Valley</td>
</tr>
<tr>
<td>Winter 2020</td>
<td>• LAWA/Inglewood</td>
</tr>
<tr>
<td>Spring 2021</td>
<td>• Highland Park/Eagle Rock/Glendale</td>
</tr>
<tr>
<td>Summer 2021</td>
<td>• Altadena/Pasadena/Sierra Madre</td>
</tr>
<tr>
<td>Fall 2021</td>
<td>• UCLA/VA Medical Center/Century City</td>
</tr>
</tbody>
</table>

Pilot recommendation allows for three years of Revenue Service Operations. The zones as identified on the map in pink are the anticipated maximum scale of the six service areas.
Metro MicroTransit Service Zones
Attachment 5

Goods Movement Strategic Plan Update
LA County Goods Movement By the Numbers

851 miles of State Highways
3,200 miles of County Roads
17,631 miles of City Roads

10th Busiest container port complex in the World
(Ports of Long Beach and Los Angeles)

Over 578 million sq. ft. of warehousing space
With over 18,000 warehousing buildings

Nations’ 6th busiest air cargo hub

2 Class I Railroads connecting the Ports of Los Angeles and Long Beach to the rest of the nation
LA County holds nearly **30%** share of California’s goods movement dependent industries

Close to **86,000** firms

With over **1.3 million** people employed

**Top 5 CA Counties by Number of Goods Movement Dependent Industry Firms, 2015 (in thousands)**

Source: US Census, County Business Patterns, 2015
$10.9 Billion: Sales taxes generated from Retail and Foods Services sectors in LA County in 2017\textsuperscript{1}

$1.7 trillion worth of goods moved into, out of, and within the Los Angeles Region in 2017\textsuperscript{2}

- $1.02 trillion: Value of goods moved by trucks
- $391 billion: Value of goods moved by multiple modes & mail

78 percent: California communities who depend exclusively on trucks to move their goods\textsuperscript{3}

\textsuperscript{1}: California Department of Tax and Fee Administration
\textsuperscript{2}: Federal Highway Administration, Freight Analysis Framework (FAF) 4.5, 2019
\textsuperscript{3}: Smart Freight Center: Caltrans case study in Developing a Sustainable Urban Freight Plan
Systematic Approach to Explore and Address Key Challenges Facing LA County:

For example

• How do we ensure economic sustainability and viability?
• Will our transportation system be able to handle demand?
• What are the equity elements that are most impacted by goods movement activities?
• How do we finance new infrastructure and technology?
• What will the needs of the goods movement/supply chain system look like in the future?
Metro’s Coordinated Planning Efforts

- Vision 2028 Plan
- Long Range Transportation Plan
- Goods Movement Strategic Plan

Guided by Metro’s Equity Platform
Stakeholders Are Shaping the Plan

Stakeholders:

• Provide input and feedback throughout the project
• Weigh in on key questions from a variety of perspectives
  ➢ What are the most critical challenges facing LA County?
  ➢ What criteria can we use to evaluate strategies?
  ➢ What should Metro’s role be?
• Vet findings and guide the project team at critical points in the process
Expert Meetings

- Public health
- Equity
- Innovative vehicle technologies
- State of clean emission vehicle technologies
- Workforce development initiatives and research
- Ports (LA, LB, and LAWA)
- Freight railroads and the trucking industry
- Urban freight
- Curbside demand management
**Mission and Vision Statement**

**Metro’s Mission:** To provide a world-class transportation system that enhances quality of life for all who live, work, and play within LA County.

**Goods Movement Strategic Plan Vision:** Metro will become...

> ...a *national leader* and *regional partner* in implementing a modern, responsive, resilient, and effective freight transportation system through policies, programs, and projects that support a competitive global economy.

> ...a steward of *equitable and sustainable investments* and *technological innovation* that will increase regional economic competitiveness, advance environmental goals, and provide access to opportunity for County residents.
Sustainable Freight Competitiveness

A Framework for LA County

- Strong Labor Force
- Safe and Efficient Multimodal System
- Strong Markets and Reliable Supply Chains
- Culture of Investment and Innovation

Equity and Sustainability
Early Action Initiatives

- Defining equity for goods movement in LA County
- Further research on countywide workforce development in logistics
- Accelerating clean truck initiatives
- Freight rail investment partnership
- Urban delivery and curbside demand management
Further Areas of Study

- Robust economic impacts analysis of goods movement activities
- The 2028 Olympics event logistics planning and coordination
- Development of a countywide platform for future federal transportation funding reauthorization
- Broader deployment of technology-based operational efficiency improvements
Next Steps

Jan-Feb
- Board Office Outreach
- Expert consultation

March-April
- Freight Working Group Meeting #4

Late Spring 2020
- Draft Plan

Early Summer 2020
- Additional Outreach

Summer 2020
- Board consideration of the Final Plan
Thank you!
What Have We Heard so Far?

There is an opportunity for Metro to take a leadership role in addressing goods movement issues.

Both “macro” and “micro” freight issues are important to consider.

There are freight, passenger, and active transportation conflicts occurring at the curb, along highly utilized freight and transit corridors, and in the first/last mile.

The Goods Movement Strategic Plan can be an effective vehicle for advocating for funding for LA County.

This plan should lay out a regional vision for goods movement priorities that can be used to influence state and federal policy.
What Have We Heard so Far?

LA County should be a test bed for deployment of innovative technology and clean fuel applications.

There is an opportunity to link together public and private investment in the regional rail system to improve both passenger and freight mobility.

Freight industry focus could strengthen existing Metro workforce development activities.

Freight movements present significant equity concerns; but freight industry provides access to opportunity for many LA County residents.
Attachment 6

Measure Up ClearGuide
MEASURE UP
ClearGuide

TAC Meeting

March 4, 2020

Enhancing Performance-Based Decision Making
Measure Up (Arterial Performance)

- Countywide Arterial Performance Measurement Baseline Conditions Analysis
  - 2018 Baseline
  - Available at https://www.riits.net/

ClearGuide

- Countywide tool available until Jan 2021
- Presenting today
Arterial Performance Measurement Pilot

• Be able to assess mobility performance measures on arterial corridors

• Arterial performance measurement tool to support local agency and sub-regional operations and planning efforts

• Data-driven decision-making
Arterial Performance Measurement Framework

1. Select Performance Measures
   - Vehicle Miles Travelled (VMT)
   - Vehicle hours of delay
   - Hourly/daily volumes (flow)
   - Average travel speed
   - Average travel time
   - Travel time variability
   - (Travel time) Reliability
   - Others (persons, trucks)

2. Identify Data Sources
   - ITS
   - Probe Vehicles
   - Traffic Detectors
   - Throughput
   - Control Delay
   - Travel Time Reliability

3. Data Management: Integrate and Validate Data

4. Develop Performance Measurement Tool

5. Apply Framework for Data-Driven Decisions
Online Performance Measurement Tool

• ClearGuide
  – Online roadway performance monitoring tool (freeways and arterials)
  – Data, performance measures, route congestion, map animations, etc.
    • Reports, charts, and export
  – Using HERE real-time crowd-source data
    • Real-time continuous speed data every minute by short links (data is archived)
  – Manual traffic volume collected on selected arterials (as part of Countywide Arterial Performance Measurement Baseline Analysis)
    • About 200 arterial corridors in County taken 2017 and 2018
    • Some provided by local agencies
Online Performance Measurement Tool

  - First, apply for an online account (no cost) to get user name and password
  - Then login
  - Who can get an account?

Real-time contextual mobility intelligence

About ClearGuide
ClearGuide helps transportation operations and planning staff make decisions that improve the mobility, reliability, and safety of the transportation system. ClearGuide ingests, analyzes, and visualizes large amounts of complex transportation data so that you can easily see what's happening across your transportation network, from the regional level down to specific roadways.

Real-time contextual mobility intelligence

Getting Started
Create a route to access performance measures and visualizations along roadway segments that you define.
Search for routes to view reports for routes that you or others have already created.
Go to the real-time map to see current traffic conditions and where congestion is worse than normal.
Use the time slider on the real-time map to analyze traffic congestion at any time in the past.
Explore the options in the navigation bar to see the full functionality of ClearGuide.
Online Performance Measurement Tool

Map allows you pan and zoom around county

by city
by area-wide
by route
real-time map
Online Performance Measurement Tool

Arterial Performance Measurement Pilot
Enhancing Performance-Based Decision Making
Create a route

To create a new route please right click on the map.

Arterial Performance Measurement Pilot
Enhancing Performance-Based Decision Making
4/3/2019 (Wed) had an extreme travel time of nearly 23 minutes around 11AM.

...when typical travel times rarely exceed 8 minutes and typical range between 6 and 7.5 minutes.
Blue Line Signal Priority: NB DTLB to Wardlow Rd

ROUTE PROPERTIES
Route ID 512
Description Blue Line Signal Priority - 33 IIntersections between Wardlow Road and DTLB
Tags cfp, 7313
Created On Mar 4, 2020
Route Type Arterial

ROUTE REPORTS + INFO
Route Info / Exits
Timeseries
Time of Day
Day of Week
Time of Day + Day of week
Contours
Monthly Contours
Time of Day

- Time Range: 7D, 1M, 6M, YTD, 1Y
- Date 1: 02/01/2019 → 03/01/2019
- Date 2: 02/01/2020 → 02/28/2020
- Granularity: Hour

- Metric: Average Travel Time
- Statistics: Minimum, Average, Maximum

Route: Blue Line Signal Priority: NB DTLB to Wardlow Rd

FRI 02/01/2019 TO FRI 02/01/2019 | MON, TUE, WED, THU, FRI AND SAT 02/01/2020 TO FRI 02/28/2020 | MON, TUE, WED, THU, FRI

Graph showing average travel time over different times of the day with two sets of data.
Why travel time will be reduced for Metro riders on Long Beach's stretch of Blue Line

It has been a frustrating discussion for transitters since Metro’s Blue Line opened in 1990: The Long Beach stretch of the light rail hits street signal after street signal, adding on minute after minute for thousands of daily commuters.

Now, there is finally a light at the end of the tunnel: With the southern stretch of the Blue Line open following a four-month closure, workers are fine-tuning the systems attached to create the priority for the Blue Line train to save even more time for commuters.

“The Blue Line Signal Synchronization Project is saving five minutes of travel time in each direction, between the Willow Street and Downtown Long Beach Stations,” said Sharon Weissman, senior advisor to Mayor Robert Garcia, who also sits on the Metro board. “In addition, Public Works staff are working with the project contractor to implement additional refinements to identify additional travel time savings.”
Flower St – one way st
Time of Day

Route: Flower Street Bus-Only Lane

SUN 07/01/2018 TO TUE 07/31/2018 | MON, TUE, WED, THU, FRI AND MON 07/01/2019 TO WED 07/31/2019 | MON, TUE, WED, THU, FRI

Arterial Performance Measurement Pilot
Enhancing Performance-Based Decision Making
Time of Day

Arterial Performance Measurement Pilot

Enhancing Performance-Based Decision Making
County changed the timing for the intersections Las Virgenes Rd @ Mulholland Hwy and Las Virgenes Rd @ Piuma Rd on April 2\textsuperscript{nd}, 2019. The congestion was at Las Virgenes Rd @ Mulholland Hwy.
The Beverly Hills Police Department has issued the following traffic warnings stemming from President Donald Trump’s scheduled visit Tuesday afternoon, Feb. 18, 2020, advising motorists to avoid select areas.

- The following roadways will be intermittently closed between 3:30 and 4:30 p.m., and again between 6:30 p.m. and 7:30 p.m.
- The area around Robertson Boulevard between the city of Beverly Hills’ southern border (Whitworth Drive) and Wilshire Boulevard
- The area around Wilshire Boulevard between Robertson Boulevard and Beverly Drive
- The area around Crescent Drive between Wilshire Boulevard and North Santa Monica Boulevard

The following roadways will be completely closed between noon and 8 p.m.:

- Beverly Drive between Wilshire Boulevard and Dayton Way
- Canon Drive between Wilshire Boulevard and Dayton Way
- Clifton Way between Crescent Drive and Canon Drive
- Crescent Drive between North and South Santa Monica Boulevards, which will be closed until 10 p.m.
## Route Time Comparison

### Metric
- Average Travel Time

### Routes
- Fair Oaks SB California to Huntington Dr
- Fair Oaks NB Huntington to California
- SB Rosemead Mission to EB
- SB Walnut Grove Mission to Rush
- Walnut Grove Rush to Mission Rosemead
- NB San Gabriel Rosemead
- EB Carvey Rosemead
- EB Carvey Rosemead
- EB Valley Rosemead
- EB Valley Rosemead
- EB Cesar Chavez (Lorena St to Vancouver Ave)
- San Marino Huntington Dr Eastbound

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<th>ID</th>
<th>2/11-2/11</th>
<th>2/18-2018</th>
<th>Diff</th>
<th>% Diff</th>
<th>Length (mi)</th>
<th>Tags</th>
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<td>104</td>
<td>6.11</td>
<td>6</td>
<td>-0.12</td>
<td>-1.91%</td>
<td>2.05</td>
<td>710 mp, arterial, cesar e chavez</td>
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<tr>
<td>EB E 3rd Street (Atlantic Blvd to Indiana St)</td>
<td>110</td>
<td>7.06</td>
<td>7.76</td>
<td>-0.69</td>
<td>-2.44%</td>
<td>2.28</td>
<td>710 mp, arterial</td>
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<tr>
<td>EB Carvey Rosemead</td>
<td>167</td>
<td>5.37</td>
<td>5.44</td>
<td>0.07</td>
<td>1.34%</td>
<td>2.12</td>
<td>710 mp, arterial</td>
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<tr>
<td>EB Valley Rosemead</td>
<td>165</td>
<td>3.07</td>
<td>3</td>
<td>-0.07</td>
<td>-2.34%</td>
<td>1.1</td>
<td>710 mp, arterial</td>
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<td>Fair Oaks NB Huntington to California</td>
<td>187</td>
<td>5.87</td>
<td>5.99</td>
<td>0.11</td>
<td>1.89%</td>
<td>2.14</td>
<td>710 mp</td>
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</tbody>
</table>
Adjust Speed Settings
### Detailed Route Reports

#### Aggregates Reports
- **Timeseries**
  - Shows variables over time
- **Time of Day**
  - Shows the averages over the time of day
  - What is the typical speed at 7am?
  - This plot is used to review typical weekday traffic patterns.
- **Day of Week**
  - Review the difference in performance between the days of the week
  - How is a Monday’s performance different from a Wednesday?

#### Analysis Reports
- **Spatial Congestion**
  - Congestion along the length of the route
- **Contours**
  - Visual heat map of congestion in time and space
  - Understand where and when congestion is occurring
- **Monthly Contours**
  - Same as Contour plots, except there is a plot for each day in a month.
  - Review congestion trends across a month
  - Visually review the route reliability

#### Congestion Cost Reports
- **User Delay Cost**
  - User delay cost, for passenger cars and trucks
- **Wasted Fuel Cost**
  - Wasted fuel cost due to congestion, for passenger cars and trucks, based on EPA models
Online Performance Measurement Tool

• Features (to name a few...)
  – Aggregate data to compare minutes, hours, days, weeks, and months
  – Easy to read reports, charts, and diagrams
  – Export tables and charts into MS Word or Excel (txt, xls, pdf)
  – Navigate by map or by route list table
  – Create multiple paths travel routes (monitor detours, commutes)
  – Speed map animation (“play back” speed condition on any day in past)
  – Measure congestion delay, queues, speeds, travel times, bottlenecks
    • Estimate user delay costs, wasted fuel costs
  – Favorites (save animation) and Alerts (by email)
Access data quickly

Develop a state of the system arterial report for your region

Conduct a Corridor Study

Do a Before/After study

Address Council or stakeholder technical questions

Evaluate response to an event

Justify need for upgrading a signal system

Prioritize projects

Access data quickly

Conduct a Corridor Study

Address Council or stakeholder technical questions

Justify need for upgrading a signal system

Prioritize projects

Evaluate response to an event

Do a Before/After study

Develop a state of the system arterial report for your region
Questions

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Attachment 7

Purple Line Ext. First/Last Mile Presentation
Next stop: vibrant communities.

First/Last Mile Planning - Purple Line Extension
Technical Advisory Committee
March 4, 2020
Westwood/UCLA Station

West entrance, looking southeast
First/Last Mile Planning Process

Data Collection & Analysis
- Pedestrian Shed
- Transit Connections
- Existing Plans
- Collision Data
- Land Use Analysis
- Technical Walk Audit

Community Engagement
- Stakeholder interviews
- Community walk audits
- Community meetings
- Pop-up events
- Survey

Final Pathway Network

Draft Pathway Network

Jurisdiction Coordination

Winter ‘18-’19 - Spring/Summer ‘19 - Fall ‘19

Existing Plans

Winter '18-19 - Spring/Summer '19 - Fall '19

Jurisdiction Coordination
Prior Engagement: Walk Audits

Walk Audits
> Mid-January
> 65 participants
> 35 total audits

Audit Results
> 451 Barriers
> 108 Ideas
> 104 Strengths
Prior Engagement: Stakeholder Interviews

21 stakeholders interviews

> Drop-off and pick-up areas
> Insufficient bicycle amenities
> Connections to residential areas
> Circulator shuttles
> Bicycle facilities
> Needs wayfinding signage
> Narrow and blocked sidewalks
> Concern with e-scooters
Prior Engagement: Pop-up Events

- Conducted May - September
- Events held in each station area
- Received feedback on proposed improvements
Westwood/UCLA – Current Status

Interim Draft Pathway Network:
Pedestrian and Wheels Improvements

Subject to change
Interim Draft Pathways – Westwood/UCLA

Pedestrian Improvements

Proposed Improvements
- Bulb-outs
- Bus Stop Improvements
- Landscaping & Shade
- New or Improved Crosswalks
- New or Improved Sidewalks

Improvement Type
- Spot Improvement
- Corridor Improvement

Street Type
- FLM Pathway Arterial Primary Routes
- FLM Pathway Collector Secondary Routes
- FLM Pathway Cut-Through Shortcut

Subject to change
Interim Draft Pathways – Westwood/UCLA

Wheels Improvements

Existing
- Sharrow
- Bicycle Boulevard
- Bicycle Lane
- Protected Bicycle Lane
- Shared Bicycle Lane
- Shared Use Path

City/County Plan Proposed
- Sharrow
- Bicycle Boulevard
- Bicycle Lane
- Protected Bicycle Lane
- Shared Use Path

FLM Proposed Facility
- Sharrow
- Bicycle Boulevard
- Bicycle Lane
- Protected Bicycle Lane
- Shared Use Path

FLM Proposed Amenity
- Bicycle Friendly Intersection
- Bicycle Hub

Subject to change
Next Steps

- Ongoing jurisdictional coordination
- Final pathways and First/Last Mile Plan
- Presentation of final plan to Metro Board of Directors in May 2020
Thank you!

Jacob Lieb, Senior Director: liebj@metro.net
Attachment 8

Metro Open Streets Grant Program Cycle 4 Presentation
Metro Open Street Grant Program
What are Open Streets?

One-day car-free events that OPEN the streets up to people walking, riding a bike, and using other forms of non-automobile transport.
Goals of Metro’s Open Street Grant Program

• Provide opportunity to walk, ride transit, bike in urban environment
• Encourage sustainable transportation mode share
• Encourage cities to further develop their multi-modal policies
Previous Open Streets Grant Implementation

• During Cycles One, Two, Three, and the 2020 Mini-cycle the Board awarded $12.74 million to 46 events in 34 jurisdictions

• To date 33 events totaling over 206 miles of car-free streets have been implemented in 33 jurisdictions throughout LA County

• 13 additional events totaling nearly 70 miles of open streets are planned though December of 2020
Funding and Eligibility

• Maximum of $500,000 per application
• No limit on the number of applications per jurisdiction
• Jurisdictions will rank their application, with 1 being the most important etc.
• Additional scoring criteria awarded to multijurisdictional events
• Additional scoring criteria awarded to disadvantaged communities
• 20% local match, in-kind contribution okay
Additional Scoring Criteria to Encourage Innovative Events

Holiday Events
Weekday Events
Evening Events
Themed Events
Shopping District Events
Cycle Four Next Steps

March, 2020 – Request Authorization to Proceed with Cycle Four from Metro Board

April, 2020 – Pending Board Approval Cycle Four Application and Guidelines released

Spring, 2020 – Applicant Workshop at Metro headquarters

Summer, 2020 – Online application due to Metro

Fall, 2020 – Award Cycle Four grants pending Board approval

Jan 2021 – Dec 2022 – Cycle Four events held
Questions & Answers

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Paula Carvajal-Paez
Sr. Director
Countywide Planning
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Attachment 9

ATP Update Presentation
Outline

• ATP Cycle 5
• Metro ATP Grant Assistance
• Local Streets and Roads Deadlines
ATP Cycle 5

- $445 million across FY 22, FY 23, FY 24, and FY 25
- Schedule
  - March 25-26, 2020 = Call for Projects
  - June 15, 2020 = Applications due
  - December 2-3, 2020 = CTC adopts Statewide projects
  - May 2021 = CTC adopts MPO projects
ATP Cycle 5

• Spring 2020 = Ongoing guidelines/application development workshops
  – March 10, 2020 – 12:30pm-3:30pm – San Diego
  – March 11, 2020 – 12:30pm-2:30pm – Orange

• Changes to guidelines/applications
  – Scoring rubric change
  – Two hard copies

• Changes to MPO Component
  – Guidelines allow MPOs to consider projects that did not apply to Statewide Component
  – Metro will only consider projects that applied to Statewide Component
ATP Cycle 5

Top Takeaways

INFRASTRUCTURE
1. Perform a site visit! Walk the project site (with the appropriate staff, such as engineers, ROW specialist, environmentalist, key stakeholders)
2. All three elements of application must match (narrative, cost/schedule, maps)
3. Application is the approved scoping document
4. Community engagement - Get buy-in early
5. Remember the Litmus Test: Using the plans, can you determine what elements are being proposed, and where?
6. When in doubt, reach out!

NI & PLANS
1. Check eligibility of items by looking at the NI Guidance
2. Be specific! Quantify as much as possible in the 22-R
3. Make sure your project aligns and connects with the goals of the ATP
4. For Plans, make sure to fit in that community engagement!
5. Complete your 22-R or your 22-Plan with your specific and unique project. This is your scope.
6. When in doubt, reach out!

Slide from ATP Central Workshop on February 10th. Full presentation can be found on catc.ca.gov/programs/active-transportation-program
Metro ATP Grant Assistance

- Application process is now closed – thank you for your applications
- Updated timeline:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 5, 2020</td>
<td>Metro notifies selected project sponsors</td>
</tr>
<tr>
<td>February 10-24, 2020</td>
<td>Project sponsor submits existing project data/information to Metro consultant</td>
</tr>
<tr>
<td>March 2-26, 2020</td>
<td>Consultants and project sponsors meet</td>
</tr>
<tr>
<td>March 26 – June 15, 2020</td>
<td>Metro consultant prepares application, project sponsor reviews drafts</td>
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</table>
Local Streets and Roads

Funding Eligibility Project List Submittals

• May 1\textsuperscript{st} deadline: Initial project lists must be submitted online on the CalSMART tool

• Cities must adopt project lists through a resolution BEFORE May 1\textsuperscript{st}, 2020

LSR Needs Assessment Survey

• Survey letter will be sent

• Survey deadline: April 17\textsuperscript{th}, 2020

• Info and survey on savecaliforniastreets.org
Contact

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