

BEFORE THE METRO COUNCIL

| | |
|---|---------------------------------------|
| FOR THE PURPOSE OF AMENDING THE 2015-18) | RESOLUTION NO. 17-4766 |
| METROPOLITAN TRANSPORTATION) | |
| IMPROVEMENT PROGRAM (MTIP) TO) | Introduced by Chief Operating Officer |
| INCLUDE TRIMET’S NEW OPEN TRIP PLANNER) | Martha Bennett in concurrence with |
| AND LOW OR NO EMISSION (LOW-NO) BUS) | Council President Tom Hughes |
| PROGRAM PROJECTS | |

WHEREAS, the Metropolitan Transportation Improvement Program (MTIP) prioritizes projects from the Regional Transportation Plan to receive transportation related funding; and

WHEREAS, the Joint Policy Advisory Committee on Transportation (JPACT) and the Metro Council approved the 2015-18 MTIP on July 31, 2014; and

WHEREAS, JPACT and the Metro Council must approve any subsequent amendments to add new projects or substantially modify existing projects in the MTIP; and

WHEREAS, the Federal Transportation Administration now requires new transit projects to be submitted for MTIP inclusion via a Formal amendment; and

WHEREAS, TriMet received a discretionary federal grant of \$678,000 from FTA’s Mobility on Demand (MOD) Sandbox Program for their new Open Trip Planner project that will create a platform integrating transit and shared-use mobility options allowing TriMet to build on its existing trip planning application to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-use mobility providers integrating data enabling users to plan trips that address first/last mile issues while traveling by transit; and

WHEREAS, TriMet’s MOD Sandbox Program award is one of eleven total nationwide and is part of a larger research effort at DOT that supports transit agencies and communities as they integrate new mobility tools like smart phone apps, bike- and car-sharing, and demand-responsive bus and van services helping make transportation systems more efficient and accessible, particularly for people who lack access to a personal vehicle.

WHEREAS, TriMet received a discretionary FTA grant of \$3,405,750 to purchase zero-emission battery electric buses with en-route fast charging equipment and depot plug-in charging in the Portland area to evaluate future procurements of zero emission buses to create a cleaner, and more energy-efficient fleet also referred to as the *Low or No-Emission (Low-No) Bus Program*; and

WHEREAS, the zero-emission bus purchase will be for replacement buses; and

WHEREAS, the TriMet Board on December 14, 2016 authorized the submission of grant applications for receipt of the FY2017 federal discretionary funds to the Federal Transit Administration to progress forward with project implementation; and

WHEREAS, the Open Trip Planner project supports the 2014 RTP goals of Expanding Transportation Choices and Emphasizing Effective and Efficient Management of the Transportation System, while the Low or no Emission (Low-No) Bus Program supports the RTP goal of Promoting Environmental Stewardship; and


WHEREAS, both FTA awarded discretionary grants qualify as an exempts project as cited in 40 CFR 93.126, Table 2, within the category of "Mass Transit", and therefore is exempt from needing to demonstrate conformity with the air quality emissions budget; and

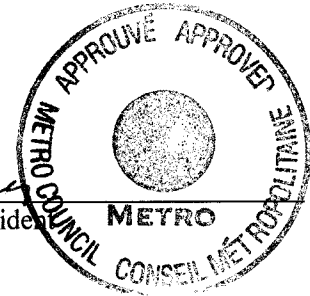
WHEREAS, the MTIP's financial constraint finding has been adjusted to reflect the new awarded 5312 and 5339c funding from the FTA grants ensuring the MTIP financial constraint requirement has been maintained; and

WHEREAS, TPAC received their notification and recommended approval on January 27, 2017; now therefore

BE IT RESOLVED that the Metro Council hereby adopts the recommendation of JPACT on February 16, 2017 to formally amend the 2015-18 MTIP to include the new TriMet Open Trip Planner and Low or No Emission (Low-No) Bus Program projects.

ADOPTED by the Metro Council this 2 day of MARCH 2017.


Tom Hughes, Council President



Approved as to Form:



Alison R. Kean, Metro Attorney

Exhibit A to Resolution No. 17-4766

2015-18 Metropolitan Transportation Improvement Plan Chapter 5 Tables Amendment

Action: Amend MTIP to include TriMet’s new Low or No-Emission (Low-No) Bus Program – FY16 and Open Trip Planner projects

Existing programming: None – new project

Amended programming: Low or No-Emission (Low-No) Bus Program

| Project Name | Project Description | ODOT Key # | Lead Agency | Estimated Total Project Cost (all phases, all years) | Project Phase | Fund Type | Program Year | Federal Funding | Minimum Local Match | Other (Local Overmatch) Funds | Total Funding |
|--|---|------------|-------------|--|---------------|-----------|--------------|-----------------|---------------------|-------------------------------|---------------|
| Low or No-Emission (Low-No) Bus Program – FY16 | Purchase replacement zero emission battery electric buses | TBD | TriMet | \$7,265,000 | Other | 5339c | 2017 | \$3,405,750 | \$601,015 | \$3,258,235 | \$7,265,000 |
| Totals: | | | | | | | | \$3,405,750 | \$601,015 | \$3,258,235 | \$7,265,000 |

Notes:

1. Fund code Notes:
 - a. 5339c = federal FTA Section 5339c Bus and Bus Related Equipment and Facilities and Low-No Programs
The Grants for Buses and Bus Facilities program (49 U.S.C. 5339) makes federal resources available to states and direct recipients to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities..
 - b. Local = required local minimum matching funds to the federal funds. The minimum match to the 5339c was set at 15%
 - c. Other = Additional local funds the lead agency provides beyond the minimum match. Also referred to as “Overmatch” funds.
2. Phase Notes: Other phase = An implementation phase (like the construction phase), but generally used for transit and ITS projects . The associated activities reflect project implementation scope elements.

Exhibit A to Resolution No. 17-4766

Existing programming: None – new project

Amended Programming: Open Trip Planner project

| Project Name | Project Description | ODOT Key # | Lead Agency | Estimated Total Project Cost (all phases, all years) | Project Phase | Fund Type | Program Year | Federal Funding | Minimum Local Match | Other (Local Overmatch) Funds | Total Funding |
|--|--|------------|-------------|--|---------------|-----------|--------------|-----------------|---------------------|-------------------------------|---------------|
| Open Trip Planner (OTP) Project – FY16 | Complete open platform for the integration of transit and shared-use mobility options. | 20665 | TriMet | \$962,000 | Other | 5312 | 2017 | \$678,000 | \$169,500 | \$114,500 | \$962,000 |
| Totals: | | | | | | | | \$678,000 | \$169,500 | \$114,500 | \$962,000 |

Notes:

1. Fund code Notes:
 - a. 5312 = federal FTA Section 5312 Mobility on Demand (MOD) Sandbox Demonstration Program
Funds projects that promote innovative business models to deliver high quality, seamless and equitable mobility options for all travelers.
 - b. Local = required local minimum matching funds to the federal funds. The minimum match to the 5339c was set at 15%
 - c. Other = Additional local funds the lead agency provides beyond the minimum match. Also referred to as “Overmatch” funds.
2. Phase Notes: Other phase = An implementation phase (like the construction phase), but generally used for transit and ITS projects . The associated activities reflect project implementation scope elements.

STAFF REPORT

FOR THE PURPOSE OF AMENDING THE 2015-18 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM (MTIP) TO INCLUDE TRIMET'S NEW OPEN TRIP PLANNER AND LOW OR NO EMISSION (LOW-NO) BUS PROGRAM PROJECTS

Date: February 17, 2017

Prepared by: Ken Lobeck, 503-797-1785

BACKGROUND:

TriMet New Discretionary FTA Grant Awards

This Formal MTIP amendment involves two discretionary FTA grants awarded to TriMet. The two grants include:

- \$3,405,750 in Section 5339c funding from the Low or No Emission Vehicle Program – FY 16 for bus replacements.
- \$678,000 in Section 5312 funding from the FY 2016 Mobility on Demand (MOD) Sandbox Program for the Open Trip Planner project.

Staff is requesting TPAC approval of Resolution 17-4766 to enable required approvals to move forward to JPACT and Council to allow both TriMet new projects to be added to the approved 2015-18 MTIP.

Open Trip Planner Project - FTA MOD Sandbox Program:

- FTA's MOD Sandbox Program is part of a larger research effort at DOT that supports transit agencies and communities as they integrate new mobility tools like smart phone apps, bike- and car-sharing, and demand-responsive bus and van services. MOD projects help make transportation systems more efficient and accessible, particularly for people who lack access to a car. FTA developed the MOD initiative to envision a multimodal, integrated, automated, accessible, and connected transportation system in which personalized mobility is a key feature. MOD allows for the use of on-demand information, real-time data, and predictive analysis to provide travelers with transportation choices that best serve their needs and circumstances. MOD leverages technologies that allow for a traveler-centric approach that provides better mobility options for everyone. FTA made eleven total nationwide awards including TriMet.
- TriMet will receive funding for an Open Trip Planner Share Use Mobility project that will create a platform integrating transit and shared-use mobility options. TriMet will build on its existing trip planning app to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-use mobility providers. By integrating data, the project will allow users to plan trips that address first/last mile issues while traveling by transit.

- The awarded Section 5312 funds require a minimum local match of 20%. Based on the federal award of \$678,000, the minimum match is \$169,500. For this project, TriMet will provide additional local funding (overmatch) in the amount of \$114,500. Total local contribution to the project will be \$284,000 with a total project estimated cost of \$962,000. Implementation of the project is proposed to occur during CY 2017.

Bus Replacement Procurement – FTA Low or No Emission Vehicle Program – FY16:

- The Low or No Emission Competitive program provides funding to state and local governmental authorities for the purchase or lease of zero-emission and low-emission transit buses as well as acquisition, construction, and leasing of required supporting facilities Eligible projects include:
 - Purchasing or leasing low- or no-emission buses.
 - Acquiring low- or no-emission buses with a leased power source.
 - Constructing or leasing facilities and related equipment (including intelligent technology and software) for low- or no-emission buses.
 - Constructing new public transportation facilities to accommodate low- or no-emission buses.
 - Rehabilitating or improving existing public transportation facilities to accommodate low- or no-emission buses.
- TriMet will receive funding to purchase zero-emission battery electric buses with en-route fast-charging equipment and depot plug-in charging in the Portland area. TriMet will engage the Center for Transportation and the Environment (CTE) to determine the most efficient and cost effective routes on which to deploy the buses. TriMet has plans to procure future zero emission buses to create a cleaner, more energy-efficient fleet.
- The awarded Section 5339c funds cannot exceed 85% which then requires a minimum local match of 15%. Based on the federal award of \$3,405,750, the minimum match is \$601,015. For this project, TriMet will provide additional local funding (overmatch) in the amount of \$3,258,235. Total local contribution to the project will be \$3,859,250 with a total project estimated cost of \$7,265,000. Implementation of the project is proposed to occur during CY 2017.

Review for MTIP Inclusion:

The MTIP is a federal document and must comply with programming guidelines identified in 23 CFR 450.300-336. Adding a new project to the MTIP involves an initial review process that includes the following seven steps:

1. Project Funding Justification, Eligibility, and Verification. **Yes:**
 - a. The Open Trip Planner and Low or No Emission (Low-No) Bus Replacement projects received federal funds and are required to be programmed in the MTIP.
 - b. Eligibility and proof of grant funding for both projects have been verified through the FTA grant award.
 - c. The 5312 and 5339c funds are under the allocation management of FTA.

2. RTP Verification. **Yes:**
 - a. New projects proposed for submission in the MTIP must be included in the current long range Regional Transportation Plan (RTP).
 - b. The Open Trip Planner project falls within RTP project ID 11591, Electronic Fare System, development of protocol specifications for and installation of eFare system.
 - c. The Low-No Emissions Bus Replacement project falls within RTP project ID 10998, Bus Replacements.

3. Consistency with RTP Goals and Strategies Verification. **Yes:**
 - a. As part of the federal and state performance measurements compliance, projects in the RTP and MTIP must be consistent with the RTP's approved strategies and goals.
 - b. The Open Trip Planner project meets two RTP goals:
 - i. Goal 3: Expand Transportation Choices:
 1. Objective 3.1 – Travel Choices
 2. Objective 3.3 – Equitable Access and Barrier Free Transportation
 - ii. Goal 4: Emphasize Effective and Efficient Management of the Transportation System, Objective 4.4 – Demand Management
 - c. The Low or No-Emission (Low-No) Bus Program project meets RTP goal #6, Promoting Environmental Stewardship, Objective 6.3 – Clean Air.

4. MTIP Formal or Administrative Amendment Verification – **A Formal Amendment is Required:**
 - a. Per discussions with FTA, all new transit projects requiring MTIP programming will be submitted and processed as a Formal amendment. Normally, exceptions to this guidance will not occur.
 - b. Once approved by the Metro Council, the Formal amendment will require final approval from USDOT.

5. Conformity Verification. **Yes:**
 - a. Federal air conformity exemption requirements are outlined in 40 CFR 93.126, Exempt Projects, Tables 2 and 40 CFR 93.127, Table 3. These two tables assist in determining if the project is required to complete air conformity analysis.
 - b. The Open Trip Planner project qualifies as an exempt project as cited in 40 CFR 93.126, Table 2, within the category of “Other” - Grants for training and research programs. The project is not a capacity enhancing project nor will lead to directly to construction. It is exempt from air conformity analysis requirements.
 - c. The Low-No Emissions Bus Replacement project also qualifies as an exempt project as cited in 40 CFR 93.126, Table 2, within the category of “Mass Transit” – Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet

6. Financial Constraint Verification. **Yes:**

- a. 23 CFR 450.324(e) requires the MTIP to demonstrate financial constraint by each year at all times. Financial or fiscal constraint simply means the commitment of funds programmed for projects in the MTIP for each year does not exceed the available funding (or capacity) identified for the specific fund type. In other words, for each year in the MTIP, fund programming does not exceed identified fund capacity.
- b. FTA’s two grant awards to TriMet are discretionary awards and will use the fund codes of 5312 and 5339c.
- c. These two fund types are not currently programmed in the MTIP. They are being added to the MTIP financial plan as part of this amendment. The change in financial constraint is as follows:

| 2015-2018 MTIP Financial Constraint Update | | | | | | | | |
|--|------|-----------------------|-------------------|----------------------------------|--|-------------------------------|--------------------------|-------------------|
| Fund Type Code | Year | Before This Amendment | | Financial Changes from Amendment | | | Programmed % of Capacity | Over Programmed ? |
| | | Existing Programming | Existing Capacity | Programming Change to the Year | Fund Capacity Change | Revised Yearly Total Capacity | | |
| 5312 | 2017 | \$0 | \$0 | + \$678,000 | Increase from \$0 to \$678,000 in 2017 | \$678,000 | 100% | No |
| 5339c | 2017 | \$0 | \$0 | +\$3,405,750 | Increase from \$0 to \$3,405,750 in 2017 | \$3,405,750 | 100% | No |

- d. No other financial changes are occurring to federal or state funding as part of this amendment.
- e. As a result of this amendment 5312 and 5339c funds and funding are added to the MTIP. There is not a negative impact to the financial constraint finding as a result of adding TriMet’s Open Trip Planner and Low-No Emission Bus Replacement projects.

7. Metro Programming Responsibilities. As the MPO, Metro is completing the required MTIP programming actions in accordance with 23 CFR 450.300-336 and with emphasis on Section 326:

- a. As part of the Formal amendment, Metro is completing a 30+ day public notification and comment opportunity for both projects as part of Metro’s Public Engagement Plan. Both Metro and TriMet addressed all submitted comments. A summary of the comments received to date is provided in Attachment 2.
- b. The TriMet Board approved their resolution to move forward and required fund obligation and project implementation with FTA.
- c. The project’s proposed funding does not impact any appropriated funding Metro receives.

Summary:

Staff is seeking approval of this Formal MTIP amendment to enable TriMet to move forward with their grant application in FTA's Transit Award Management System (TrAMS) system to obligate and begin expending awarded grant funding for both projects.

Staff will complete the MTIP programming action upon final approval from the Metro Council and monitor subsequent required approvals up and through USDOT for final inclusion in the MTIP/STIP. The programming summary is shown in Exhibit A to the Resolution 17-4766.

Approval schedule:

- TPAC: Approved on January 27, 2017
- JPACT: Approved on February 16, 2017
- Metro Council: Proposed for March 2, 2017

ANALYSIS/INFORMATION


1. **Known Opposition:** None known at this time.
2. **Legal Antecedents:** Amends the 2015-2018 Metropolitan Transportation Improvement Program adopted by Metro Council Resolution 14-4532 on July 31, 2014 (For The Purpose of Adopting the Metropolitan Transportation Improvement Program for the Portland Metropolitan Area).
3. **Anticipated Effects:** Enables the projects to obligate and expend awarded federal funds.
4. **Budget Impacts:** None

RECOMMENDED ACTION:

Staff recommends the approval of Resolution 17-4766.

Attachments:

1. Amendment Narrative and MTIP Worksheet Cover Pages
2. Comments Summary

| | | |
|--|--------------------|---|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |  |
| Programming Action | Narrative/Comments | |

Project Summary

Name: **Open Trip Planner**

ODOT Key 20665

Description: The Tri-County Metropolitan Transportation District of Oregon (TriMet) will receive funding for an Open Trip Planner Share Use Mobility project that will create a platform integrating transit and shared-use mobility options. TriMet will build on its existing trip planning app to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-use mobility providers. By integrating data, the project will allow users to plan trips that address first/last mile issues while traveling by transit.

Project Status: NEW – Added January 2017 as a Formal amendment to the MTIP

Project Details

Reason for Amendment: New federally funded project required to be in the MTIP

- Add Lead Agency: TriMet
- Add Name: “Open Trip (OTP) Planner”
- Add Short Description: “Complete open platform for the integration of transit and shared-us mobility options”
- Project Type: Transit

The MOD Sandbox Program is part of a larger research effort at DOT that supports transit agencies and communities as they integrate new mobility tools like smart phone apps, bike- and car-sharing, and demand-responsive bus and van services. MOD projects help make transportation systems more efficient and accessible, particularly for people who lack access to a car.

Project Funding


- Add federal 5312 fund type FY 2017 Other phase funds of \$678,000
- Total federal amount is \$678,000.
- Add Local fund type FY 2017 minimum match amount of \$169,500
- Add Local Overmatch fund type FY 2017 amount of \$114,500
- Total local programmed amount is \$284,000
- Total local match percent to the project: 29.5%
- Total programmed amount and YOE project cost is \$962,000

5312 funds awarded to TriMet from the FTA Fiscal Year 2016 Mobility on Demand (MOD) Program

| State | Project Sponsor | Description | Funding |
|-------|---|---|-----------|
| OR | Tri-County Metropolitan Transportation District | The Tri-County Metropolitan Transportation District of Oregon (TriMet) will receive funding for an Open Trip Planner Share Use Mobility project that will create a platform integrating transit and shared-use mobility options. TriMet will build on its existing trip planning app to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-us-mobility providers. By integrating data, the project will allow users to plan trips that address first/last mile issues while traveling by transit. | \$678,000 |

MTIP Review and Inclusion Details

- Amendment submission: Add as a Formal amendment: **Yes** – Per FTA guidance for new transit projects
- Metro legislation required: Yes – reference Resolution 17-4766.
- Consistency with RTP: Yes – Applicable RTP ID# 11591 – Electronic Fare System, development of protocol specifications for and installation of eFare system.
- Consistency with RTP Goals: Yes
 - i. Goal 3: Expand Transportation Choices:
 - 1. Objective 3.1 – Travel Choices
 - 2. Objective 3.3 – Equitable Access and Barrier Free Transportation
 - ii. Goal 4: Emphasize Effective and Efficient Management of the Transportation System, Objective 4.4 – Demand Management
- Conformity Status: Exempt project per 40 CFR 93.126, Table 2 “Other” – Grants for training and research and programs.
- Financial Constraint Verification: Yes – 5312 and 5339c are new federal funds added to the MTIP as part of the amendment and have been incorporated into the MTIP Financial Plan
- Public Notification process included: Yes – Comment period is open from January 5, 2017 until February 16, 2017

| | | |
|--|--------------------|---|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |  |
| Programming Action | Narrative/Comments | |

Project Summary

Name: **Low or No-Emission (Low-No) Bus Program – FY16** ODOT Key: TBD
 Description: TriMet will receive funding to purchase zero-emission battery electric buses with en-route fast-charging equipment and depot plug-in charging in the Portland area. TriMet will engage the Center for Transportation and the Environment (CTE) to determine the most efficient and cost effective routes on which to deploy the buses. TriMet has plans to procure future zero emission buses to create a cleaner, more energy-efficient fleet.
Project Status: NEW – Added January 2017 as a Formal amendment to the MTIP

Project Details

Reason for Amendment: New federally funded project required to be in the MTIP

- Add Lead Agency: TriMet
- Add Name: “Low or No-Emission (Low-No Bus Program (FY16)”
- Add Short Description: “Purchase zero emission battery electric buses”
- Project Type: Transit

This is a bus replacement project and does not reflect a fleet expansion

Project Funding

- Add federal 5339c fund type FY 2017 Other phase funds of \$3,405,750
- Total federal amount is \$3,405,750
- Add Local fund type FY 2017 minimum match amount of \$601,015
- Add Local Overmatch fund type FY 2017 amount of \$3,258,235
- Total local programmed amount is \$3,859,250.
- Total local match percent to project cost: 53.1%
- Total programmed amount and YOE project cost is \$7,265,000

5339c funds awarded to TriMet from the FTA Fiscal Year 2016 Low or No-Emission (Low-No) Bus Program

| State | Project Sponsor | Project Description | Funding Amount |
|-------|---|---|----------------|
| OR | Tri-County Metropolitan Transportation District of Oregon | TriMet will receive funding to purchase zero-emission battery electric buses with en-route fast-charging equipment and depot plug-in charging in the Portland area. TriMet will engage the Center for Transportation and the Environment (CTE) to determine the most efficient and cost effective routes on which to deploy the buses. TriMet has plans to procure future zero emission buses to create a cleaner, more energy-efficient fleet. | \$3,405,750 |

MTIP Review and Inclusion Details

- Amendment submission: Add as a Formal amendment: **Yes** – Per FTA guidance for new transit projects
- Metro legislation required: Yes – reference Resolution 17-4766.
- Consistency with RTP: Yes – Applicable RTP ID# 10998, Bus Replacements
- Consistency with RTP Goals: Yes – Goal 6, Emphasize Promoting Environmental Stewardship, Objective 6.3, Clean Air.
- Conformity Status: Exempt project per 40 CFR 93.126, Table 2 “Mass Transit” – Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.
- Financial Constraint Verification: Yes – 5312 and 5339c are new federal funds added to the MTIP as part of the amendment and have been incorporated into the MTIP Financial Plan
- Public Notification process included: Yes – The comment period was extended and is open from January 5, 2017 until February 16, 2017

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|--|--------------------|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |
| Programming Action | Narrative/Comments |

Metro
 Metropolitan Transportation Improvement Program (MTIP)
PROJECT DETAIL WORKSHEET

Administrative Amendment Request

Lead Agency: TriMet Project Type: Transit Mile Points: N/A

Project Name: Open Trip Planner (OTP) Project – FY16

Short Description: Complete open platform for the integration of transit and shared-use mobility options.

MTIP ID: TBD

ODOT KEY: TBD

RTP ID: N/A

RFFA ID: N/A

RFFA Cycle:

Requested Action: Create a new key code to reflect \$678,000 awarded under Federal Fiscal Year 2016 Section 5312 Research, Development and Deployment Program.

Action: ADD NEW PROJECT:

- Add \$678,000 Section 5312 funds to OTHER phase in FFY17
- Add \$169,500 required local match at 20%
- Add \$114,500 Local overmatch funds
- Total project cost is \$962,000
- Amendment type: Administrative

PROJECT FUNDING DETAILS

| Fund Type | Year | Project Phases | | | | | Total |
|--------------------------|------|----------------|-------------------------|-----------------------|--------------|-----------|-----------|
| | | Planning | Preliminary Engineering | Purchase Right-of-Way | Construction | Other | |
| Federal Funds | | | | | | | |
| FTA - 5312 | 2017 | | | | | \$678,000 | \$678,000 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| Federal Total | | \$0 | \$0 | \$0 | \$0 | \$678,000 | \$678,000 |
| State Funds | | | | | | | |
| | | | | | | | \$0 |
| State Total | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Local Funds | | | | | | | |
| Local (20%) | 2017 | | | | | \$169,500 | \$169,500 |
| Overmatch | 2017 | | | | | \$114,500 | \$114,500 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| Local Total | | \$0 | \$0 | \$0 | \$0 | \$284,000 | \$284,000 |
| Programming Total | | \$0 | \$0 | \$0 | \$0 | \$962,000 | \$962,000 |

Metro
 Metropolitan Transportation Improvement Program (MTIP)
PROJECT DETAIL WORKSHEET

Administrative Amendment Request

Lead Agency: TriMet Project Type: Transit Mile Points: N/A

Project Name: Low or No-Emission (Low-No) Bus Program – FY16

Short Description: Purchase zero emission battery electric buses.

MTIP ID: TBD

ODOT KEY: TBD

RTP ID: N/A

RFFA ID: N/A

RFFA Cycle:


Requested Action: Create a new key code to reflect \$3,405,750 awarded under Federal Fiscal Year 2016 Low or No Emission Bus Program.

Action: ADD NEW PROJECT:

- Add \$3,405,750 Section 5339 funds to OTHER phase in FFY17
- Add \$601,015 required local match at 15%
- Add \$3,258,235 Local overmatch funds
- Total project cost is \$7,265,000
- Amendment type: Administrative

PROJECT FUNDING DETAILS

| Fund Type | Year | Project Phases | | | | | Total |
|--------------------------|------|----------------|-------------------------|-----------------------|--------------|-------------|-------------|
| | | Planning | Preliminary Engineering | Purchase Right-of-Way | Construction | Other | |
| Federal Funds | | | | | | | |
| FTA - 5339(c) | 2017 | | | | | \$3,405,750 | \$3,405,750 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| Federal Total | | \$0 | \$0 | \$0 | \$0 | \$3,405,750 | \$3,405,750 |
| State Funds | | | | | | | |
| | | | | | | | \$0 |
| State Total | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Local Funds | | | | | | | |
| Local (15%) | 2017 | | | | | \$601,015 | \$601,015 |
| Overmatch | 2017 | | | | | \$3,258,235 | \$3,258,235 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| Local Total | | \$0 | \$0 | \$0 | \$0 | \$3,859,250 | \$3,859,250 |
| Programming Total | | \$0 | \$0 | \$0 | \$0 | \$7,265,000 | \$7,265,000 |

| | | |
|--|--------------------|---|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |  |
| Programming Action | Narrative/Comments | |

Project Summary

Name: **Open Trip Planner**

ODOT Key 20665

Description: The Tri-County Metropolitan Transportation District of Oregon (TriMet) will receive funding for an Open Trip Planner Share Use Mobility project that will create a platform integrating transit and shared-use mobility options. TriMet will build on its existing trip planning app to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-use mobility providers. By integrating data, the project will allow users to plan trips that address first/last mile issues while traveling by transit.

Project Status: NEW – Added January 2017 as a Formal amendment to the MTIP

Project Details

Reason for Amendment: New federally funded project required to be in the MTIP

- Add Lead Agency: TriMet
- Add Name: “Open Trip (OTP) Planner”
- Add Short Description: “Complete open platform for the integration of transit and shared-us mobility options”
- Project Type: Transit

The MOD Sandbox Program is part of a larger research effort at DOT that supports transit agencies and communities as they integrate new mobility tools like smart phone apps, bike- and car-sharing, and demand-responsive bus and van services. MOD projects help make transportation systems more efficient and accessible, particularly for people who lack access to a car.

Project Funding


- Add federal 5312 fund type FY 2017 Other phase funds of \$678,000
- Total federal amount is \$678,000.
- Add Local fund type FY 2017 minimum match amount of \$169,500
- Add Local Overmatch fund type FY 2017 amount of \$114,500
- Total local programmed amount is \$284,000
- Total local match percent to the project: 29.5%
- Total programmed amount and YOE project cost is \$962,000

5312 funds awarded to TriMet from the FTA Fiscal Year 2016 Mobility on Demand (MOD) Program

| State | Project Sponsor | Description | Funding |
|-------|---|---|-----------|
| OR | Tri-County Metropolitan Transportation District | The Tri-County Metropolitan Transportation District of Oregon (TriMet) will receive funding for an Open Trip Planner Share Use Mobility project that will create a platform integrating transit and shared-use mobility options. TriMet will build on its existing trip planning app to incorporate shared use mobility options and more sophisticated functionality and interfaces, including data sharing for shared-us-mobility providers. By integrating data, the project will allow users to plan trips that address first/last mile issues while traveling by transit. | \$678,000 |

MTIP Review and Inclusion Details

- Amendment submission: Add as a Formal amendment: **Yes** – Per FTA guidance for new transit projects
- Metro legislation required: Yes – reference Resolution 17-4766.
- Consistency with RTP: Yes – Applicable RTP ID# 11591 – Electronic Fare System, development of protocol specifications for and installation of eFare system.
- Consistency with RTP Goals: Yes
 - i. Goal 3: Expand Transportation Choices:
 - 1. Objective 3.1 – Travel Choices
 - 2. Objective 3.3 – Equitable Access and Barrier Free Transportation
 - ii. Goal 4: Emphasize Effective and Efficient Management of the Transportation System, Objective 4.4 – Demand Management
- Conformity Status: Exempt project per 40 CFR 93.126, Table 2 “Other” – Grants for training and research and programs.
- Financial Constraint Verification: Yes – 5312 and 5339c are new federal funds added to the MTIP as part of the amendment and have been incorporated into the MTIP Financial Plan
- Public Notification process included: Yes – Comment period is open from January 5, 2017 until February 16, 2017

| | | |
|--|--------------------|---|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |  |
| Programming Action | Narrative/Comments | |

Project Summary

Name: **Low or No-Emission (Low-No) Bus Program – FY16** ODOT Key: TBD
 Description: TriMet will receive funding to purchase zero-emission battery electric buses with en-route fast-charging equipment and depot plug-in charging in the Portland area. TriMet will engage the Center for Transportation and the Environment (CTE) to determine the most efficient and cost effective routes on which to deploy the buses. TriMet has plans to procure future zero emission buses to create a cleaner, more energy-efficient fleet.
Project Status: NEW – Added January 2017 as a Formal amendment to the MTIP

Project Details

Reason for Amendment: New federally funded project required to be in the MTIP

- Add Lead Agency: TriMet
- Add Name: “Low or No-Emission (Low-No Bus Program (FY16)”
- Add Short Description: “Purchase zero emission battery electric buses”
- Project Type: Transit

This is a bus replacement project and does not reflect a fleet expansion

Project Funding

- Add federal 5339c fund type FY 2017 Other phase funds of \$3,405,750
- Total federal amount is \$3,405,750
- Add Local fund type FY 2017 minimum match amount of \$601,015
- Add Local Overmatch fund type FY 2017 amount of \$3,258,235
- Total local programmed amount is \$3,859,250.
- Total local match percent to project cost: 53.1%
- Total programmed amount and YOE project cost is \$7,265,000

5339c funds awarded to TriMet from the FTA Fiscal Year 2016 Low or No-Emission (Low-No) Bus Program

| State | Project Sponsor | Project Description | Funding Amount |
|-------|---|---|----------------|
| OR | Tri-County Metropolitan Transportation District of Oregon | TriMet will receive funding to purchase zero-emission battery electric buses with en-route fast-charging equipment and depot plug-in charging in the Portland area. TriMet will engage the Center for Transportation and the Environment (CTE) to determine the most efficient and cost effective routes on which to deploy the buses. TriMet has plans to procure future zero emission buses to create a cleaner, more energy-efficient fleet. | \$3,405,750 |

MTIP Review and Inclusion Details

- Amendment submission: Add as a Formal amendment: **Yes** – Per FTA guidance for new transit projects
- Metro legislation required: Yes – reference Resolution 17-4766.
- Consistency with RTP: Yes – Applicable RTP ID# 10998, Bus Replacements
- Consistency with RTP Goals: Yes – Goal 6, Emphasize Promoting Environmental Stewardship, Objective 6.3, Clean Air.
- Conformity Status: Exempt project per 40 CFR 93.126, Table 2 “Mass Transit” – Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.
- Financial Constraint Verification: Yes – 5312 and 5339c are new federal funds added to the MTIP as part of the amendment and have been incorporated into the MTIP Financial Plan
- Public Notification process included: Yes – The comment period was extended and is open from January 5, 2017 until February 16, 2017

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|--|--------------------|
| Metro Formal Amendment 17-01F New TriMet Discretionary Grant Projects Number of projects within this amendment: 2 | |
| Programming Action | Narrative/Comments |

| | | | | | | | | |
|---|--|--|-------------------------|-----------------------|--------------|-----------|-----------|--|
| | Metro Metropolitan Transportation Improvement Program (MTIP) PROJECT DETAIL WORKSHEET | Administrative Amendment Request | | | | | | |
| Lead Agency: <u>TriMet</u> Project Name: Open Trip Planner (OTP) Project – FY16 Short Description: Complete open platform for the integration of transit and shared-use mobility options. | Project Type: Transit Mile Points: N/A | MTIP ID: TBD ODOT KEY: TBD RTP ID: N/A RFFA ID: N/A RFFA Cycle: | | | | | | |
| Requested Action: Create a new key code to reflect \$678,000 awarded under Federal Fiscal Year 2016 Section 5312 Research, Development and Deployment Program. | | Action: ADD NEW PROJECT: - Add \$678,000 Section 5312 funds to OTHER phase in FFY17 - Add \$169,500 required local match at 20% - Add \$114,500 Local overmatch funds - Total project cost is \$962,000 - Amendment type: Administrative | | | | | | |
| PROJECT FUNDING DETAILS | | | | | | | | |
| PROJECT FUNDING DETAILS | | | | | | | | |
| | | | | | | | | |
| Fund Type | Year | Planning | Preliminary Engineering | Purchase Right-of-Way | Construction | Other | Total | |
| Federal Funds | | | | | | | | |
| FTA - 5312 | 2017 | | | | | \$678,000 | \$678,000 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| Federal Total | | \$0 | \$0 | \$0 | \$0 | \$678,000 | \$678,000 | |
| State Funds | | | | | | | | |
| | | | | | | | \$0 | |
| State Total | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Local Funds | | | | | | | | |
| Local (20%) | 2017 | | | | | \$169,500 | \$169,500 | |
| Overmatch | 2017 | | | | | \$114,500 | \$114,500 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| Local Total | | \$0 | \$0 | \$0 | \$0 | \$284,000 | \$284,000 | |
| Programming Total | | \$0 | \$0 | \$0 | \$0 | \$962,000 | \$962,000 | |

| | | | | | | | | |
|---|--|--|-------------------------|-----------------------|--------------|-------------|-------------|--|
| | Metro Metropolitan Transportation Improvement Program (MTIP) PROJECT DETAIL WORKSHEET | Administrative Amendment Request | | | | | | |
| Lead Agency: <u>TriMet</u> Project Name: Low or No-Emission (Low-No) Bus Program – FY16 Short Description: Purchase zero emission battery electric buses. | Project Type: Transit Mile Points: N/A | MTIP ID: TBD ODOT KEY: TBD RTP ID: N/A RFFA ID: N/A RFFA Cycle: | | | | | | |
| Requested Action: Create a new key code to reflect \$3,405,750 awarded under Federal Fiscal Year 2016 Low or No Emission Bus Program. | | Action: ADD NEW PROJECT: - Add \$3,405,750 Section 5339 funds to OTHER phase in FFY17 - Add \$601,015 required local match at 15% - Add \$3,258,235 Local overmatch funds - Total project cost is \$7,265,000 - Amendment type: Administrative | | | | | | |
| PROJECT FUNDING DETAILS | | | | | | | | |
| PROJECT FUNDING DETAILS | | | | | | | | |
| | | | | | | | | |
| Fund Type | Year | Planning | Preliminary Engineering | Purchase Right-of-Way | Construction | Other | Total | |
| Federal Funds | | | | | | | | |
| FTA - 5339(c) | 2017 | | | | | \$3,405,750 | \$3,405,750 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| Federal Total | | \$0 | \$0 | \$0 | \$0 | \$3,405,750 | \$3,405,750 | |
| State Funds | | | | | | | | |
| | | | | | | | \$0 | |
| State Total | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Local Funds | | | | | | | | |
| Local (15%) | 2017 | | | | | \$601,015 | \$601,015 | |
| Overmatch | 2017 | | | | | \$3,258,235 | \$3,258,235 | |
| | | | | | | | \$0 | |
| | | | | | | | \$0 | |
| Local Total | | \$0 | \$0 | \$0 | \$0 | \$3,859,250 | \$3,859,250 | |
| Programming Total | | \$0 | \$0 | \$0 | \$0 | \$7,265,000 | \$7,265,000 | |