

Date: July 27, 2005  
W.I.: 1224  
Referred by: PAC  
Revised: 12/17/08-C  
07/22/09-C

ABSTRACT

Resolution No. 3708, Revised

This resolution adopts the Regional Measure 2 (RM2) Real-time Transit Information Grant program.

The following attachment is provided with this resolution:

Attachment A— RM2 Real-time Transit Information Program of Projects

Attachment B – RM2 Real-time Transit Grant Program Requirements

This resolution was revised on December 17, 2008 to: (a) Remove funding for large-format, multi-agency real-time transit information displays at MTC designated regional transit hubs from the Caltrain, Golden Gate Transit and LAVTA grants. These funds were redirected to BART and MTC who will implement these signage improvements as part of MTC's Hub Signage Program. (b) Revise the Golden Gate Transit grant to reflect actual real-time transit procurement results. (c) Update the funding requirements for RM2 Real Time Transit grant recipients.

This resolution was revised on July 22, 2009 to remove the full funding from the LAVTA data lines project based on LAVTA's request, and redirect to 1) AC Transit - for providing real-time information on AC Transit's TransBay and All-Nighter routes (\$61,000) and, 2) MTC - for a new sub project "Transit Connectivity Hub Signage Program" which will provide real time displays and their supporting data and electrical systems at the 24 Regional Transit Hubs identified in the Transit Connectivity Plan (\$112,000). Further, additional scope was added to the AC Transit Hastus Scheduling Software Upgrade and Real Time Signage project and minor scope changes were made to the Caltrain Real Time Transit Information project.

Further discussion of this action is contained in the MTC Executive Director's memorandum to the Programming and Allocations Committee dated July 13, 2005, December 10, 2008 and July 8, 2009.

Date: July 27, 2005  
W.I.: 1224  
Referred by: PAC

RE: Regional Measure 2 (RM2) Real-time Transit Information Grant Program

METROPOLITAN TRANSPORTATION COMMISSION  
RESOLUTION NO. 3708

WHEREAS, pursuant to Government Code Section 66500 et seq., the Metropolitan Transportation Commission (“MTC”) is the regional transportation planning agency for the San Francisco Bay Area; and

WHEREAS, Streets and Highways Code Sections 30950 *et seq.* created the Bay Area Toll Authority (“BATA”) which is a public instrumentality governed by the same board as that governing MTC; and

WHEREAS, on March 2, 2004, voters approved Regional Measure 2, increasing the toll for all vehicles on the seven state-owned toll bridges in the San Francisco Bay Area by \$1.00, with this extra dollar funding various transportation projects within the region that have been determined to reduce congestion or to make improvements to travel in the toll bridge corridors, as identified in SB 916 (Chapter 715, Statutes of 2004), commonly referred as Regional Measure 2 (“RM2”); and

WHEREAS, RM2 establishes the Regional Traffic Relief Plan and lists specific capital projects and programs and transit operating assistance eligible to receive RM2 funding as identified in Streets and Highways Code Sections 30914(c) & (d); and

WHEREAS, RM2 assigns administrative duties and responsibilities for the implementation of the Regional Traffic Relief Plan to MTC; and

WHEREAS, BATA shall fund the projects of the Regional Traffic Relief Plan by transferring RM2 authorized funds to MTC; and

WHEREAS, MTC adopted policies and procedures for the implementation of the Regional Measure 2 Regional Traffic Relief Plan, which specifies the allocation criteria and project compliance requirements for RM 2 funding (MTC Resolution No. 3636); and

WHEREAS, the RM2 Real-time Transit Information Grant Program is identified as capital project number 19 under RM 2 and is a competitive grant program available to transit operators as identified in Streets and Highways Code Sections 30914(c); and

WHEREAS, MTC has developed a process and criteria to be used in the selection of the RM2 Real-time Transit Information grant recipients to be funded with Regional Measure 2 funds; and

WHEREAS, MTC used the process and criteria set forth in the February 18, 2005, RM2 Real-time Transit Information Grant Call for Projects to develop the grant recipient list and the associated funding amounts found in Attachment A; and

WHEREAS, Attachment A to this resolution, attached hereto and incorporated herein as though set forth at length, lists the recommended grant recipients and the correlated funding amounts; and

WHEREAS, Attachment B to this resolution, attached hereto and incorporated herein as though set forth at length, lists the Real-Time Transit Grant Program requirements; now therefore be it

RESOLVED, that MTC approves MTC staff's review of the RM2 Real-time Transit Information Grant applications; and be it further

RESOLVED, that MTC approves the list of grant recipients and their associated funding amounts as set forth in Attachment A; and, be it further

RESOLVED, that encumbrance of the Real-Time Transit grants require a subsequent action, whereby MTC allocates the RM2 funds specific to each grant recipient consistent with the provisions of the Regional Measure 2 Regional Traffic Relief Plan Policy and Procedures as set forth in length in MTC Resolution 3636; and be it further

RESOLVED, that the grant recipients shall comply with the requirements outlined in Attachment B pertaining to the RM2 Real-Time Transit Grant Program; and be it further

RESOLVED, that redistributing of any funds within the Real-Time Transit Grant Program as a result of grant recipient non-compliance with the requirements of the RM2 Real-Time Transit Grant Program or RM2 Policies and Procedures will be subject to MTC review and discretion.

METROPOLITAN TRANSPORTATION COMMISSION

---

Jon Rubin, Chair

The above resolution was entered into by the Metropolitan Transportation Commission at the regular meeting of the Commission held in Oakland, California, on July 27, 2005.

Date: July 27, 2005  
W.I.: 1224  
Referred by: PAC  
Revised: 12/17/08-C  
7/22/09-C

Attachment A  
MTC Resolution No. 3708  
Page 1 of 2

Recommended List of RM 2 Real-Time Transit Information Grant Program Fund Recipients

| Agency                              | Recommended Funding | Project  |
|-------------------------------------|---------------------|--|
| AC Transit <sup>6</sup>             | \$988,000           | <ul style="list-style-type: none"> <li>• Hastus scheduling system upgrade to provide higher quality real-time transit information, and an automatic feed into regional 511/transit databases</li> <li>• Real-time information at every stop for additional lines</li> <li>• Signs at up to two BART stations</li> <li>• Add AC Transit Transbay routes to 511 phone, MY 511, and Transbay Terminal hub signs<sup>6</sup></li> <li>• Add AC Transit All-Nighter routes to 511 phone, MY 511, and Transbay Terminal hub signs<sup>6</sup></li> </ul> |
| BART <sup>1</sup>                   | \$100,000           | <ul style="list-style-type: none"> <li>• Four large-format, multi-agency real-time transit information displays at Dublin/Pleasanton, Millbrae and Richmond transit hubs</li> </ul>  |
| Emery Go-Round                      | \$105,000           | <ul style="list-style-type: none"> <li>• 2 Signs at MacArthur BART station</li> </ul>  |
| Golden Gate Transit <sup>2</sup>    | \$1,655,000         | <ul style="list-style-type: none"> <li>• Radio system with basic AVL capability</li> <li>• 30 bus stops signs and 12 hub signs (including San Rafael and Ferry Terminal transit hubs)</li> <li>• Interface to destination signs</li> </ul>   |
| LAVTA <sup>3</sup>                  | \$0                 | <ul style="list-style-type: none"> <li>• Data lines to bring BART schedule information into LAVTA base system</li> </ul>   |
| MTC <sup>4</sup>                    | \$100,000           | <ul style="list-style-type: none"> <li>• Four large-format, multi-agency real-time transit information displays at 4<sup>th</sup>/King, Diridon, Mountain View, and Palo Alto transit hubs</li> </ul>  |
| Peninsula Corridor JPB <sup>5</sup> | \$2,569,000         | <ul style="list-style-type: none"> <li>• Inclusion of real-time Caltrain data on all existing platform signs</li> <li>• Provide Bus bay signs at SamTrans stops at Daly City BART, Colma BART, Top of the Hill, Daly City bus shelter and Redwood City Caltrain<sup>8</sup></li> <li>• Refurbish thirteen bus bay signs at the Millbrae Multimodal Station<sup>8</sup></li> <li>• AVL system on Caltrain, including a software update for real-time predictions</li> <li>• Predictions for all SamTrans and Caltrain routes on 511</li> </ul>      |

| Agency              | Recommended Funding | Project   |
|---------------------|---------------------|---|
| SFMTA               | \$11,283,000        | <ul style="list-style-type: none"> <li>• 450 bus shelter signs; 86 mobile computers</li> <li>• NextBus on 495 motor coaches</li> <li>• Connection to 511 real-time transit database</li> <li>• Automatic upload of configuration data</li> <li>• GPS repeaters to enable immediate identification of defective trackers</li> <li>• Interface between NextBus and subway systems</li> <li>• Continuous monitoring of data quality</li> </ul> |
| VTA                 | \$2,530,000         | <ul style="list-style-type: none"> <li>• Completion of real-time system</li> <li>• Installation of 80 signs</li> </ul>  |
| WestCAT             | \$551,000           | <ul style="list-style-type: none"> <li>• Implementation of technology to provide real-time at every stop and installation of 20 signs</li> </ul>  |
| MTC <sup>7</sup>    | \$112,000           | <ul style="list-style-type: none"> <li>• Provide real time displays and their supporting data and electrical systems at the 24 Regional Transit Hubs identified in the Transit Connectivity Plan. (Transit Connectivity Hub Signage Program)</li> </ul>   |
| <b>Total Funds:</b> |                     | <b>\$19,993,000</b>   |

1. BART Project added on 12/17/08 for \$100,000.
2. Golden Gate grant reduced on 12/17/08 by \$25,000.
3. LAVTA grant of \$223,000 reduced on 12/17/08 by \$50,000; LAVTA project grant of \$173,000 removed on 7/22/09 after LAVTA returned funds.
4. MTC project added on 12/17/08 for \$100,000.
5. JPB grant reduced on 12/17/08 by \$125,000.
6. AC Transit grant increased on 7/22/09 by \$61,000 for additional scope.
7. MTC project added on 7/22/09 for the Transit Connectivity Hub Signage Program. (\$112,000)
8. Scope changes added on 07/22/09 for the Caltrain Real Time Transit Information Project.

Date: July 27, 2005  
W.I.: 1224  
Referred by: PAC  
Revised: 12/17/08-C

Attachment B  
MTC Resolution No. 3708  
Page 1 of 2

## Requirements for RM 2 Real-Time Grant Program Fund Recipients

Transit operators awarded funds under the RM 2 Real-Time Grant Program must meet the following requirements, in addition to the Regional Measure 2 Policies and Procedures:

### 1. Usable Segments

Provide real-time information for usable segments the transit system. Usable segments are defined as routes that improve regional or intra-agency connectivity, routes that serve main arterials, express or limited-stop routes, or a subset of vehicle types within an agency (e.g. all light rail vehicles.)

### 2. Performance Standards

Provide performance standards for real-time data accuracy that have been or will be established with the real-time system vendor and are being monitored.

### 3. Automated Updates of Configuration Data

Provide an efficient, automated way to update real-time system configuration data when changes are made to the scheduling system.

### 4. Data Sharing

Provide required real-time information to a regional database for dissemination on 511 and 511.org and to other transit operators, if applicable, in an MTC-approved format. Required real-time information includes predicted arrival times for every stop, a date and time stamp for each prediction, and transit agency configuration data including routes, stop ids and direction.

### 5. Regional Real-time Transit TAC

Grant recipients will be expected to participate in a regional Technical Advisory Committee of transit operators implementing real-time transit information systems.

### 6. Support MTC's RTIS

Grant recipients must support the Regional Transit Information System (RTIS). MTC will confirm before funding allocation that the requesting agency is actively supporting and efficiently transferring information and data required to successfully and accurately offer to the public the data provided on [www.transit.511.org](http://www.transit.511.org) and the 511 TakeTransit<sup>SM</sup> Trip Planner.

7. Real-time Signage

Any large format real-time signage that will be placed in the general pedestrian area (i.e. not at a specific bus stop) of a significant multi-agency transfer hub (i.e. train/bus station, Transit Center) must adhere to the signage standards for equipment and content developed with input from the Real-time Transit Technical Advisory Committee.

8. On-going Operations and Maintenance Costs

The real-time system and the data communications connection to the MTC Data Storage system shall be supported by the project sponsor, at the sponsor's expense, for a minimum of 5 years from the date of final acceptance.

9. Final Acceptance Testing

Transit agencies will allow MTC's technical advisor to participate in their final acceptance testing at no cost to the project.

10. Expiration of Project Funds

All project work must be completed within three years of the allocation of funds to the grant recipient. If any funds remain after the three-year grant period, MTC will have the authority to either extend the grant period to complete the project or reallocate unspent funds to another project.

11. Cost Overruns

The grant recipient will be responsible for cost increases beyond the amount awarded in the initial grant.

12. Non-511 Phone Systems

MTC provides real-time transit arrival/departure predictions on its 511 phone system. Consequently, no RM2 grant funds can be used to build or expand a separate real-time transit information phone system.

13. Overhead Rate Restrictions

For the real time transit projects, an overhead rate (as defined in RM2 policies and procedures) is not an eligible expense and sponsors/implementing agencies will not be reimbursed for any overhead rate costs.