

# Metropolitan Transportation Commission Programming and Allocations Committee

May 9, 2012

Item Number 2d

## Resolution No. 3708, Revised

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

**Background:** RM2 establishes a \$20 million competitive grant program to provide real-time transit information.

### Current Call for Projects

Through a call for projects in 2005, MTC allocated \$20 million to seven transit agencies to implement technology systems to deliver real-time transit information through telephone, wireless, and internet communications. These seven agencies are expected to complete their implementations and integration with the regional 511 system by December, 2012. About \$1.8 million from the 2005 allocations remained unused due to funds returned/rescinded from the original allocations mostly due to savings on the projects. In February, 2012, MTC issued another call for projects to fund integration of real-time information from additional transit agencies into the 511 system using the remaining RM2 funds. This second call included requirements and criteria to be used in evaluating the applications. MTC received four applications totaling about \$206,000 in requests.

An evaluation panel of MTC staff reviewed the proposals. The program evaluation criteria included: 1) project scope of work and schedule, 2) project risks and on-going support, and 3) costs. Per the Table below, three projects for a total of \$180,000 are recommended for funding. One project submitted by Rio Vista, is not being recommended for funding due to low cost effectiveness and technical concerns.

Agency	RM2 Funds Requested	Recommended Award
Water Emergency Transportation Authority (WETA)	\$53,500	\$54,000
LAVTA	\$93,427	\$94,000
Capitol Corridor	\$31,913	\$32,000
Rio Vista	\$27,600	\$0
<b>Total Funds:</b>	<b>\$206,440</b>	<b>\$180,000</b>

### Overall Real-time Program Status

With the addition of the three new projects, a total of 12 transit operators' real-time information will be integrated into the regional 511 system. A few additional operators will perform integration work with fund sources other than RM2. The remaining operators will need to find other funding

sources for this work. Attachment A shows the status of real-time system implementation by various transit operators in the region.

Next Steps

Of the original \$20 million for real-time transit projects, \$1.2 million will remain unused after this round of allocations. Staff will come back to the Commission with future recommendations for use of these funds.

**Issues:**

Staff received feedback that some transit operators decided not to apply for this call for projects either because they did not have a real time transit information system, their own program already included funding for integration with 511, or the funding requirements seemed burdensome. Agencies who felt the requirements were burdensome did not communicate their concerns before the application deadline. MTC will explain the requirements in a future real-time transit Technical Advisory Committee (TAC) meeting in order to help the remaining agencies fulfill the requirements when they are ready for integration with 511.

**Recommendation:**

Refer MTC Resolution No. 3708, Revised, the recommended list of RM2 Real-time Transit Information projects, to the Commission for approval of \$180,000 in RM2 funds as listed above.

**Attachments:**

Attachment 1 – Recommended Grant Awards  
MTC Resolution No. 3708, Revised

**Attachment A  
 Status of Real-Time System Implementation**

<b>Operator</b>	<b>RM2 Funding</b>	<b>511 Integration Status</b>
AC Transit	Yes – 2005	Completed
BART	No	Completed
Muni	Yes – 2005	Completed
WestCAT	Yes – 2005	Completed
Samtrans	Yes – 2005	To be completed in 2012
Caltrain	Yes – 2005	To be completed in 2012
VTA	Yes – 2005	To be completed in 2012
Golden Gate Transit and Ferry	Yes – 2005	To be completed in 2012
LAVTA	Recommended – 2012	To be completed by 2015
Emery Go-Round	Yes-2005	Not completed yet
WETA	Recommended – 2012	To be completed by 2015
Capitol Corridor	Recommended – 2012	To be completed by 2015
TriDelta	No	Ready to be integrated
Napa Vine	No	Ready to be integrated
Marin Transit	No	Ready to be integrated
County Connection	No	Vendor selected, will integrate
Santa Rosa CityBus	No	Selecting vendor, will integrate
Sonoma County Transit	No	Selecting vendor, will integrate
FAST	No	Unknown
Soltrans	No	Unknown
ACE	No	Unknown
Union City Transit	No	Unknown
Vacaville CityCoach	No	Unknown
Petaluma Transit	No	Unknown
Rio Vista Delta Breeze	Applied in 2012, not recommended.	Unknown

Date: July 27, 2005  
W.I.: 1224  
Referred by: PAC  
Revised: 12/17/08-C 07/22/09-C  
04/28/10-C 05/26/10-DA  
02/22/12-C 05/23/12-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.

This resolution was revised on April 28, 2010 to remove \$2,381,574 in savings from the SFMTA Automatic Vehicle Location project owing to the completion of the project and redirect a portion of it (\$373,932) to the Port of San Francisco for a new sub-project “San Francisco Bay Regional Ferry System Security & Interoperability Enhancements”.

This resolution was revised via delegated authority on May 26, 2010, to a) Add \$250,000 to the AC Transit Hastus Scheduling Software Upgrade and Real Time Signage project to equip the remaining AC Transit routes with NextBus technology to enable real time predictions on 511, towards relocation of two signs at the Fruitvale and Del Norte BART stations, and installation of three signs at the Eastmont Transit Center and, b) Remove \$50,000 from the GGT Advanced Communications & Information System (ACIS) project owing to non-fulfillment of a condition placed on the RM2 funds allocated to this project on October 28, 2010, and, c) Combine all the MTC and BART sub-projects into one sub-project under MTC to simplify administration. The new project shall be in the amount of \$362,000 and replaces the BART project (\$100,000), the 2 MTC projects (\$100,000 and \$112,000), and includes \$50,000 rescinded from the GGT project. These funds will be used to provide real time signage systems at the Regional Transit Hubs identified in the Transit Connectivity Plan.

This resolution was revised on February 22, 2012 to add \$350,000 to the MTC portion of the new Regional Real Time Transit System Expansion project. These are previously rescinded funds from individual projects of the Real-Time program that were complete and closed out.

This resolution was revised on May 23, 2012 to program \$180,000 in RM2 Capital funds to Capital Corridor, LAVTA and WETA for the integration of their real time transit information data into the 511 regional real-time information system.

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, July 8, 2009, April 14, 2010, February 8, 2012 and May 9, 2012.

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

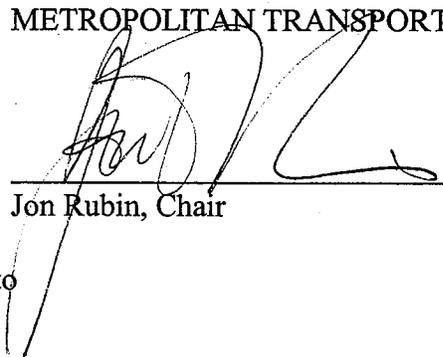
RESOLVED, that MTC approves the list of grant recipients and their associated funding amounts as set forth in Attachment A; and, be it further

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



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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 07/22/09-C  
04/28/10-C 05/26/10-DA  
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Attachment A  
MTC Resolution No. 3708  
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Recommended List of RM 2 Real-Time Transit Information Grant Program Fund Recipients

Agency	Recommended Funding	Project
AC Transit <sup>6</sup>	\$1,238,000 <sup>12</sup>	<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>• Allow all local and transbay routes to be predicted on NextBus and on 511<sup>12</sup></li> <li>• Implementation of data feed to the regional 511 system per the regional real-time transit system requirements<sup>12</sup></li> <li>• Relocation of two signs at the Fruitvale &amp; del Norte BART stations<sup>12</sup></li> <li>• Installation of three new signs at the Eastmont Transit Center<sup>12</sup></li> </ul>
BART <sup>1</sup>	\$0	<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>	\$1,605,000 <sup>13</sup>	<ul style="list-style-type: none"> <li>• Radio system with basic AVL capability</li> <li>• 30 bus stops signs and 12 hub signs</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>	\$0	<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>

Agency	Recommended Funding	Project
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>
SFMTA <sup>9</sup>	\$8,901,426	<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>	\$0	<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>
Port of San Francisco <sup>10</sup>	\$373,932	<ul style="list-style-type: none"> <li>• Online Ferry Schedule Management System: Software upgrades and ferry staff training.</li> <li>• Digital Displays: Software upgrades and installation of the digital displays for providing Real-time ferry service and emergency information.</li> <li>• Enhanced Onboard Electronic Chart System: Software upgrades to on-board AIS systems, acquisition of additional units, training on use of enhanced AIS, policy and procedures regarding use of enhanced AIS, coordination among ferry operators and the Coast Guard, and software upgrades to Nextbus in order to incorporate Real-time ferry information into the 511 Transportation Information System.</li> </ul>
MTC <sup>11</sup>	\$362,000	<ul style="list-style-type: none"> <li>• Provide real time signage systems at the Regional Transit Hubs identified in the Transit Connectivity Plan.</li> </ul>

Agency	Recommended Funding	Project
Regional Real-Time Transit System Expansion (MTC)	\$350,000 <sup>14</sup>	<ul style="list-style-type: none"> <li>MTC will perform regional real-time information system enhancements and integration with the newly selected transit agencies' real-time system.</li> </ul>
Capital Corridor <sup>15</sup>	\$32,000	<ul style="list-style-type: none"> <li>Integration of real-time data into the 511 regional real-time information system.</li> </ul>
LAVTA <sup>15</sup>	\$94,000	<ul style="list-style-type: none"> <li>Integration of real-time data into the 511 regional real-time information system.</li> </ul>
WETA <sup>15</sup>	\$54,000	<ul style="list-style-type: none"> <li>Integration of real-time data into the 511 regional real-time information system.</li> </ul>
<b>Total Funds:</b>	<b>\$18,765,358</b>	

- BART Project added on 12/17/08 for \$100,000. Project removed on 05/26/10 and funds rolled into MTC sub-project. BART to be given \$100,000 of Prop 1B funds (from TCI) in place of RM2.
- Golden Gate grant reduced on 12/17/08 by \$25,000.
- 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.
- MTC project added on 12/17/08 for \$100,000. Project removed and combined into single MTC sub-project on 05/26/10 to simplify administration.
- JPB grant reduced on 12/17/08 by \$125,000.
- AC Transit grant increased on 7/22/09 by \$61,000 for additional scope.
- MTC project added on 7/22/09 for the Transit Connectivity Hub Signage Program. (\$112,000). Project removed and combined into single MTC sub-project on 05/26/10 to simplify administration
- Scope changes added on 07/22/09 for the Caltrain Real Time Transit Information Project.
- SFMTA grant reduced on 04/28/10 by \$2,381,574 in savings to close out the project.
- Port of San Francisco project added on 04/28/10 for \$373,932.
- MTC & BART sub-projects combined into one sub-project on 05/26/10. Includes \$50,000 of rescinded funds from Golden Gate Transit. (\$362,000)
- AC Transit grant increased on 05/26/10 by \$250,000 for additional scope.
- Grant further reduced by 50,000 on 05/26/10 owing to non-fulfillment of condition placed on allocated funds.
- Added on 02/22/2012; consists of rescinded funds from previously completed projects.
- Added on 05/23/2012; selected through 2012 call for projects for integration with 511 system.