Metropolitan Transportation Commission
Programming and Allocations Committee

February 8, 2012 **Item Number 2d**

Resolution Nos. 3708, Revised and 4050

Subject: Programming and allocation of approximately $350,000 in RM2 capital funds.

Background: In 2005, MTC's 511 program began working with transit agency RM2 grant recipients to integrate their real-time transit information into the regional 511 Traveler Information system. Since that time, a number of other Bay Area transit operators have developed real-time transit information systems. Based upon the success of the 511 real-time transit system and on transit agency interest to join 511, MTC staff recommends expanding the real-time transit information program to integrate additional transit agencies.

Real-Time Transit Information System Expansion: MTC is requesting an allocation of $350,000 to pay for MTC's integration costs to add new transit agencies to MTC's 511 real-time transit information program. MTC will be issuing a Call for Projects (budget ~ $650,000) in February 2012 to select project sponsors who either have or will have real-time data to add to 511. The sponsors will use the funds to pay for 511 integration costs on their side. The budget of $1 million for this program would come from funds previously rescinded from the prior RM2 Real Time projects that have been completed under budget. MTC is requesting its $350,000 allocation now in order to begin integration with those transit agencies who are ready to join 511 without participating in the Call for Projects. Upon completion of the Call for Projects, staff will return to this Committee with a recommendation for the $650,000 program.

Issues: None.

Recommendation: Refer Resolution Nos. 3708, Revised and 4050 to the Commission for approval.

Attachments: Resolution Nos. 3708, Revised and 4050.

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	

<u>ABSTRACT</u>

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.

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 and February 8, 2012.

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

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

Agency	Recommended Funding	Project
AC Transit[6]	$1,238,000[12]	• Hastus scheduling system upgrade to provide higher quality real-time transit information, and an automatic feed into regional 511/transit databases • Real-time information at every stop for additional lines • Signs at up to two BART stations • Add AC Transit Transbay routes to 511 phone, MY 511, and Transbay Terminal hub signs[6] • Allow all local and transbay routes to be predicted on NextBus and on 511[12] • Implementation of data feed to the regional 511 system per the regional real-time transit system requirements[12] • Relocation of two signs at the Fruitvale & del Norte BART stations[12] • Installation of three new signs at the Eastmont Transit Center[12]
BART[1]	$0	• Four large-format, multi-agency real-time transit information displays at Dublin/Pleasanton, Millbrae and Richmond transit hubs
Emery Go-Round	$105,000	• 2 Signs at MacArthur BART station
Golden Gate Transit[2]	$1,605,000[13]	• Radio system with basic AVL capability • 30 bus stops signs and 12 hub signs • Interface to destination signs
LAVTA[3]	$0	• Data lines to bring BART schedule information into LAVTA base system
MTC[4]	$0	• Four large-format, multi-agency real-time transit information displays at 4th/King, Diridon, Mountain View, and Palo Alto transit hubs

Agency	Recommended Funding	Project
Peninsula Corridor JPB[5]	$2,569,000	• Inclusion of real-time Caltrain data on all existing platform signs • 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[8] • Refurbish thirteen bus bay signs at the Millbrae Multimodal Station[8] • AVL system on Caltrain, including a software update for real-time predictions • Predictions for all SamTrans and Caltrain routes on 511
SFMTA[9]	$8,901,426	• 450 bus shelter signs; 86 mobile computers • NextBus on 495 motor coaches • Connection to 511 real-time transit database • Automatic upload of configuration data • GPS repeaters to enable immediate identification of defective trackers • Interface between NextBus and subway systems • Continuous monitoring of data quality
VTA	$2,530,000	• Completion of real-time system • Installation of 80 signs
WestCAT	$551,000	• Implementation of technology to provide real-time at every stop and installation of 20 signs
MTC[7]	$0	• 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)
Port of San Francisco[10]	$373,932	• Online Ferry Schedule Management System: Software upgrades and ferry staff training. • Digital Displays: Software upgrades and installation of the digital displays for providing Real-time ferry service and emergency information. • 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.
MTC[11]	$362,000	• Provide real time signage systems at the Regional Transit Hubs identified in the Transit Connectivity Plan.

Agency	Recommended Funding	Project
Regional Real-Time Transit System Expansion (MTC)	$350,000[14]	• MTC will perform regional real-time information system enhancements and integration with the newly selected transit agencies' real-time system.
Total Funds:	**$18,585,358**	

1. 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.
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. Project removed and combined into single MTC sub-project on 05/26/10 to simplify administration.
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). Project removed and combined into single MTC sub-project on 05/26/10 to simplify administration
8. Scope changes added on 07/22/09 for the Caltrain Real Time Transit Information Project.
9. SFMTA grant reduced on 04/28/10 by $2,381,574 in savings to close out the project.
10. Port of San Francisco project added on 04/28/10 for $373,932.
11. 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)
12. AC Transit grant increased on 05/26/10 by $250,000 for additional scope.
13. Grant further reduced by 50,000 on 05/26/10 owing to non-fulfillment of condition placed on allocated funds.
14. Added on 02/22/2012; consists of rescinded funds from previously completed projects.

Date: February 22, 2012
W.I.: 1255
Referred by: PAC

<u>ABSTRACT</u>

MTC Resolution No. 4050

This resolution approves the allocation of Regional Measure 2 funds for the Regional Real-Time Transit Information System Expansion administered by Metropolitan Transportation Commission (MTC) and sponsored/ implemented by MTC and the various Bay Area transit operators identified in Attachment A of Resolution No. 3708.

This resolution includes the following attachments:

Attachment A - Allocation Summary Sheets
Attachment B - Project Specific Conditions
Attachment C - MTC staff's review of Initial Project Reports (IPRs)
Attachment D - RM2 Deliverable/Useable Segment Cash Flow Plan

Additional discussion of this allocation is contained in the summary sheet to the MTC Programming and Allocations Committee dated February 8, 2012.

Date: February 22, 2012
W.I.: 1255
Referred by: PAC

Re: Approval of Allocation of Regional Measure 2 funds for the Real-Time Transit Information Program

METROPOLITAN TRANSPORTATION COMMISSION
RESOLUTION No. 4050

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 Real-time Transit Information Program, administered by the Metropolitan Transportation Commission, is identified as capital project number 19 under RM 2 and is eligible to receive RM 2 funding as identified in Streets and Highways Code Sections 30914(c); and

WHEREAS, the Metropolitan Transportation Commission has approved a list of funding recipients (project sponsor), respective funding awards, and Real-Time Transit Information Program specific requirements as identified in MTC Resolution No. 3708; and

WHEREAS, each project sponsor will submit updates to the Initial Project Report ("IPR"), as required pursuant to Streets and Highway Code Section 30914(e), to MTC for review and approval for each project allocation request; and

WHEREAS, Attachment A to this resolution, attached hereto and incorporated herein as though set forth at length, lists the project and phase for which the project sponsor is requesting RM2 funding and the reimbursement schedule and amount recommended for allocation by MTC staff; and

WHEREAS, Attachment B to this resolution, attached hereto and incorporated herein as though set forth at length, lists the required project specific conditions which must be met prior to execution of the allocation and any reimbursement of RM2 funds for each project sponsor; and

WHEREAS, Attachment C to this resolution, attached hereto and incorporated herein as though set forth at length, includes MTC staff's review of each project sponsor's Initial Project Report (IPR) for this project; and

WHEREAS, Attachment D attached hereto and incorporated herein as though set forth at length, lists the cash flow of RM2 funds and complementary funding for the deliverable/useable RM2 project segment; and

WHEREAS, the claimants to which funds are allocated under this resolution have certified that the projects and purposes listed and recorded in the attachments are in compliance with the requirements of the California Environmental Quality Act (Public Resources Code Section 2l000 et seq.), and with the State Environmental Impact Report Guidelines (l4 California Code of Regulations Section l5000 et seq.); now, therefore, be it

RESOLVED, that MTC approves MTC staff's review of the requesting project sponsor's updated IPR for this project as set forth in the Attachment C; and be it further

RESOLVED, that MTC approves the allocation and reimbursement of RM2 funds in accordance with the amount and reimbursement schedule for the phase, and activities as set forth in the Attachment A; and, be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the project sponsor complying 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 allocation and reimbursement of RM2 funds are further conditioned upon the project specific conditions as set forth in Attachment B; and, be it further

RESOLVED, that the allocation and reimbursement of RM2 funds as set forth in Attachment A are conditioned upon the availability and expenditure of the complementary funding as set forth in Attachment D; and be it further

RESOLVED, that reimbursement of RM2 funds as set forth in Attachment A is subject to the availability of RM2 funding; and be it further

RESOLVED, that a certified copy of this resolution, shall be forwarded to the project sponsor.

METROPOLITAN TRANSPORTATION COMMISSION

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Adrienne J. Tissier, Chair

The above resolution was entered into
by the Metropolitan Transportation
Commission at the regular meeting
of the Commission held in Oakland,
California, on February 22, 2012.

REGIONAL MEASURE 2 PROGRAM
Allocation of Funds

Project Title: Regional Real-Time Transit Information System Expansion
Sponsor: MTC
Implementing Agency: MTC
Project Number: 19.10

Allocation No. 1

Activities to be funded with Allocation #1:

1. Update all necessary technical documents to accommodate additional data to be included in the regional real-time transit data specification.
2. Enhance all necessary components of the regional real-time system to comply with the system requirements described in the updated technical documentations.
3. Coordinate with individual transit agencies and their vendors to integrate real-time information for all transit agencies to be selected through a RM2 funded Call for Projects.

Allocation Instruction No.	Approval Date		Amount	Phase	Reimbursement Year		Cumulative Total To Date
12405001	22-Feb-12	$	350,000	CON	FY 2011-12	$	350,000

REGIONAL MEASURE 2 PROGRAM
Project Specific Conditions

Project Title:	Regional Real-Time Transit Information System Expansion
Sponsor:	MTC
Implementing Agency:	MTC
Project Number:	19.10

The allocation and reimbursement of RM2 funds for the above project are conditioned upon the following:

1. Usable Segments

Provide real-time information for usable segments for all newly selected transit systems. Usable segments are defined as all routes within a transit agency service, 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 in the system requirements document and are being monitored. MTC reserves the right to require that agencies receiving RM2 funds meet minimum standards for accuracy.

3. Data Sharing

Provide real-time information hosted in a regional database through all 511 dissemination channels including 511 phone, 511.org, and if applicable, to other transit operators and external users in an MTC-approved format at no cost, without restriction, and for the duration of the Project. Required real-time information includes predicted arrival times for every stop with necessary transit service configuration data, a date and time stamp for each prediction, and, if available, vehicle location information.

4. Regional Real-time Transit TAC

Coordinate and host regional real-time Technical Advisory Committee (TAC) meetings.

5. On-going Operations and Maintenance Costs

The regional real-time 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.

6. Final Acceptance Testing

MTC will conduct a final acceptance testing of all new developments and integrations as per developed or to be developed Acceptance Test Plan.

7. Expiration of Project Funds

All project work must be completed according to the schedule set in the allocation. If any funds remain after the grant period, MTC will have the authority to either extend the grant period to complete the project or reallocate unspent funds to another project.

8. Cost Overruns

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

9. 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.

RM2 Project Number: 19.10

Regional Real-Time Transit Information System Expansion

Lead Sponsor	Other Sponsors(s)	Implementing Agency (if applicable)
MTC	N/A	MTC

Legislated Project Description

Provide a competitive grant program for transit operators for assistance with implemention of high-technology systems to provide real-time transit information to riders at transit stops or via telephone, wireless, or Internet communication. The funds shall be administered by the Metropolitan Transportation Commission.

RM2 Legislated Funding (in $1,000)	Total Estimated Project Cost (in $1,000)
$350 [Component of $20 million program]	$350

Project Purpose and Description

In 2005, MTC's 511 program began working with transit agency RM2 grant recipients to integrate their real-time transit departure information into the regional 511 Traveler Information system. Since that time, a number of other Bay Area transit operators have developed real-time transit information systems. Based upon the success of the 511 real-time transit system and on transit agency interest to join 511, MTC decided to expand the real-time transit information program to integrate additional transit agencies. This project will allow additional transit agencies and the 511 program to perform the necessary work to facilitate system level integration between the transit agencies' real-time systems and 511. The overall project has two major components – 1) transit agencies, to be selected through a Call for Projects, to perform integration work on their real-time system to provide real-time transit data to the 511 system, and 2) 511 program to perform system enhancements and integration to receive and disseminate real-time transit information for the selected transit agencies.

Funding Description

Committed Funds: Fully Funded by RM2.

Uncommitted Funds: None.

Operating Capacity: MTC

Overall Project Cost and Schedule

Phase	Scope	Start	End	Cost (in $1,000)
1	Final Environmental Document	N/A	N/A	N/A
2	Plans, Specifications and Estimates	N/A	N/A	N/A
3	Right-of-Way	N/A	N/A	N/A
4	Construction	03/2012	06/2015	$350
			Total:	**$350**

Total Project Funding Plan: Committed and Uncommitted Sources

(Amounts Escalated in Thousands)

Project Title	Regional Real-Time Transit Information System Expansion	**Project No.**	19.10
Lead Sponsor	MTC		

Fund Source	**Phase**	**Prior**	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2010-11**	**2011-12**	**Future**	**Total**
Committed										
RM2 (MTC)	Construction							350,000		350,000
										0
										0
										0
										0
										0
Total:		0	0	0	0	0	0	350,000	0	350,000
Uncommitted										
										0
										0
Total:		0	0	0	0	0	0	0	0	0
Total Project Committed and Uncommitted										
		Prior	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2010-11**	**2011-12**	**Future**	**Total**
Total:		0	0	0	0	0	0	350,000	0	350,000

REGIONAL MEASURE 2 PROGRAM
Project Cash Flow Plan

Project Title: Regional Real-Time Transit Information System Expansion
Sponsor: MTC
Project Number: 19.10

RM2 Project # 19.10	PRIOR	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	TOTAL
RM2 Funds Total	***-***	***-***	***-***	***-***	***-***	***350,000***	***350,000***
Environmental (ENV)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
							0
							0
							0
							0
Final Design (PS&E)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
							0
							0
							0
							0
Right of Way	**0**	**0**	**0**	**0**	**0**	**0**	**0**
							0
							0
							0
							0
Construction	**0**	**0**	**0**	**0**	**0**	**350,000**	**350,000**
RM2						350,000	350,000
							0
							0
							0
TOTAL FUNDING							
Environmental	0	0	0	0	0	0	**0**
Final Design (PS&E)	0	0	0	0	0	0	**0**
Right of Way	0	0	0	0	0	0	**0**
Construction	0	0	0	0	0	350,000	**350,000**
PROJECT TOTAL	0	0	0	0	0	350,000	350,000