Resolution No. 3434

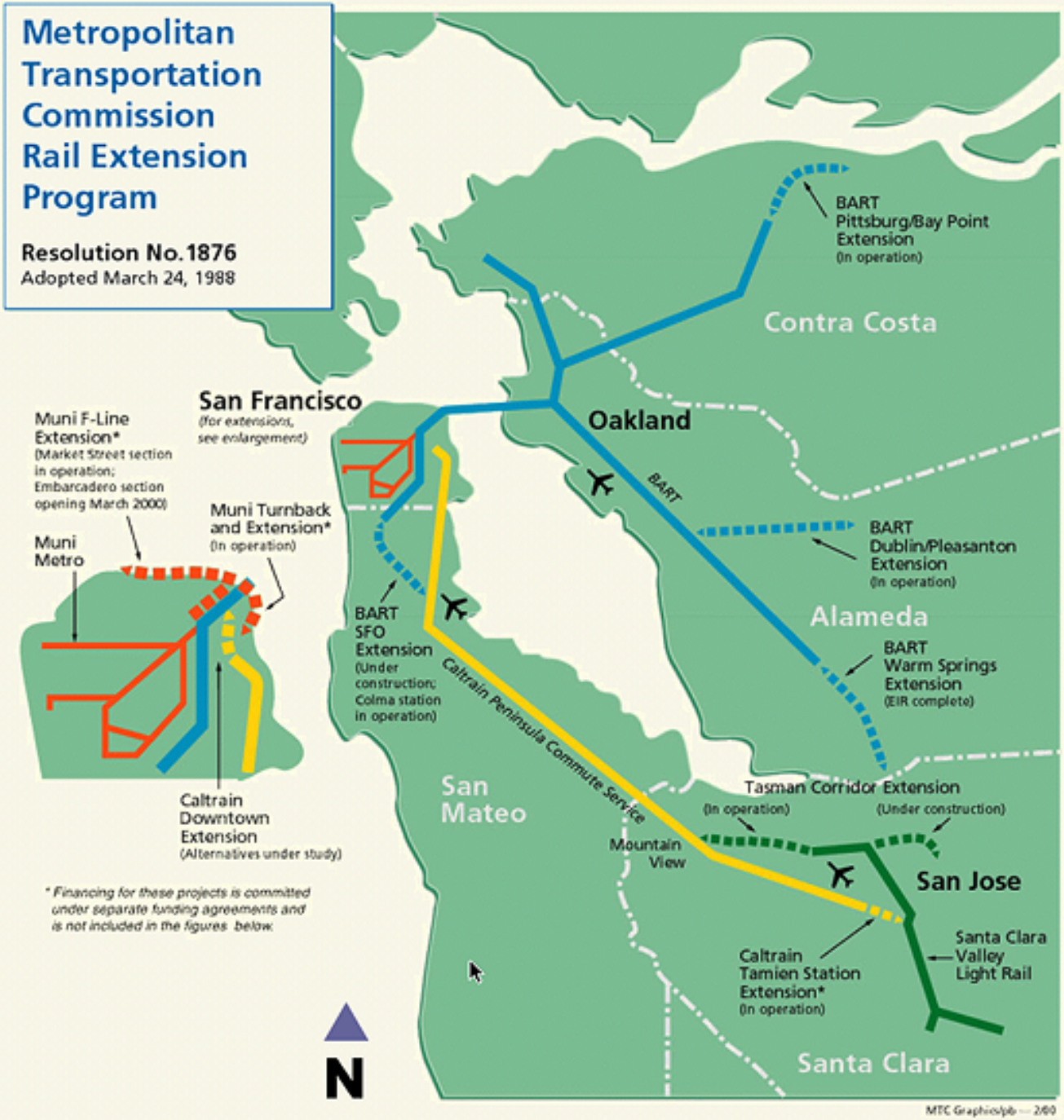
Regional Transit Expansion Program

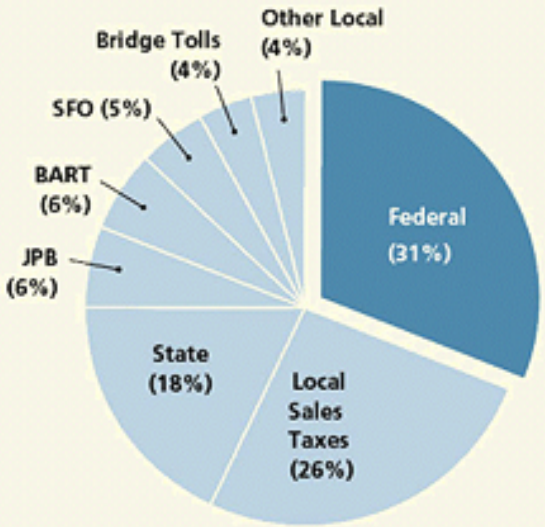
Steve Heminger
Executive Director

Metropolitan Transportation Commission

Metropolitan Transportation Commission Rail Extension Program

Resolution No. 1876
Adopted March 24, 1988





Total: $4.1 billion

Federal $1.3 billion
Local Sales Taxes $1.1 billion
State Funds $740 million
JPB Caltrain Funding $232 million
BART $229 million
San Francisco Airport (SFO) $200 million
Bridge Tolls $161 million
Other Local $145 million

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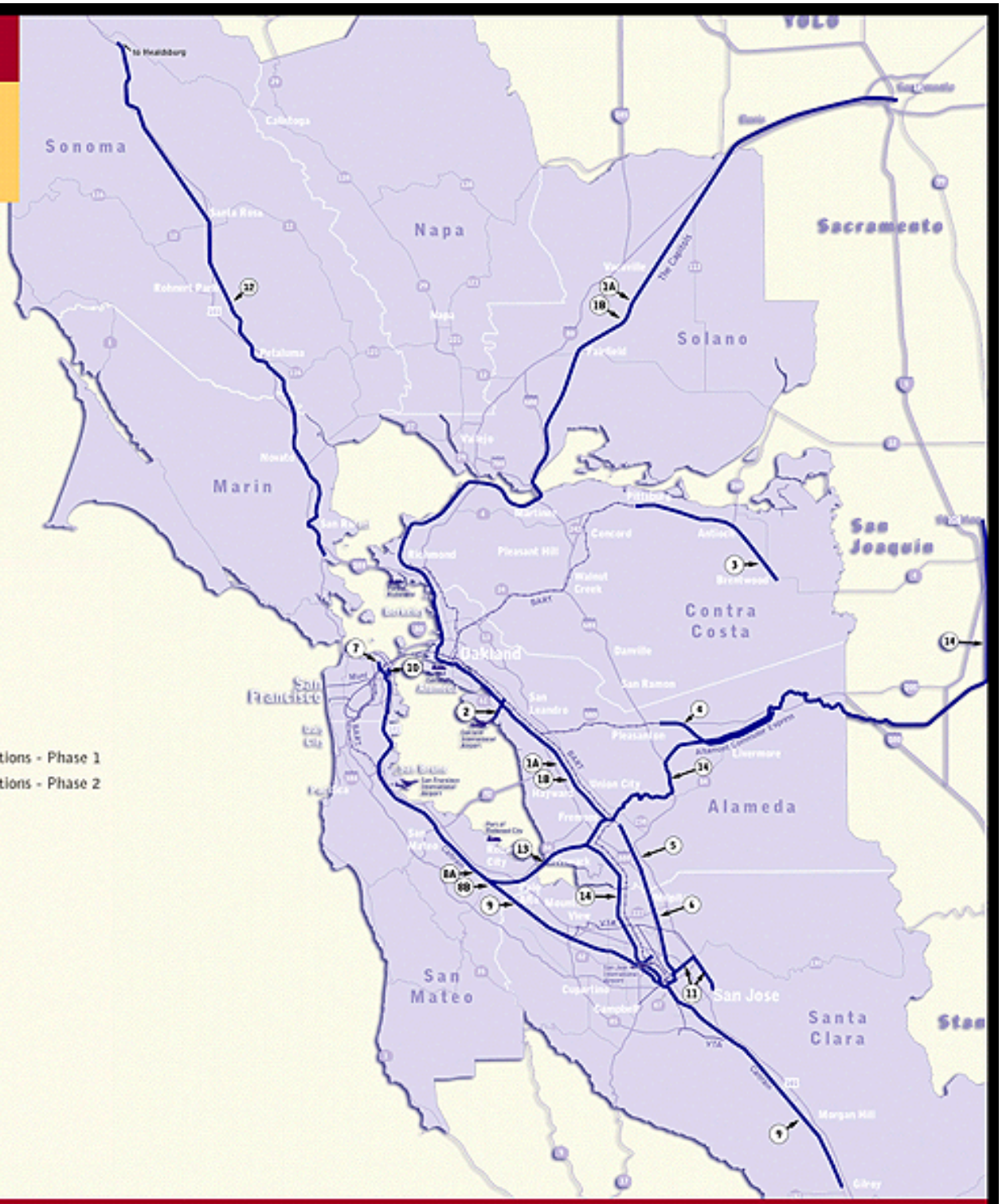
Regional Transit Expansion Program:

Recommended Rail Expansion Projects



Legend

- Rail-proposed
- Rail-existing
- Light Rail-existing

Rail Projects

1A Capitol Corridor Intercity Rail- Increased Service and Additional Stations - Phase 1
1B Capitol Corridor Intercity Rail- Increased Service and Additional Stations - Phase 2
2 BART - Oakland Airport Connector
3 BART/East Contra Costa rail
4 BART/Tri-Valley rail
5 BART - Fremont to Warm Springs
6 BART - Warm Springs to San Jose
7 Muni - Third St. Corridor LRT - Central Subway
8A Caltrain - Express Service - Phase 1
8B Caltrain - Express Service - Phase 2
9 Caltrain - Rapid Rail / Electrification
10 Caltrain - Downtown San Francisco Extension/Transbay Terminal
11 Santa Clara VTA LRT - Downtown / East Valley - Phases 1 and 2
12 Sonoma-Marin Rail
13 Dumbarton Bridge Rail Service
14 Altamont Commuter Express (ACE) - Increased Service

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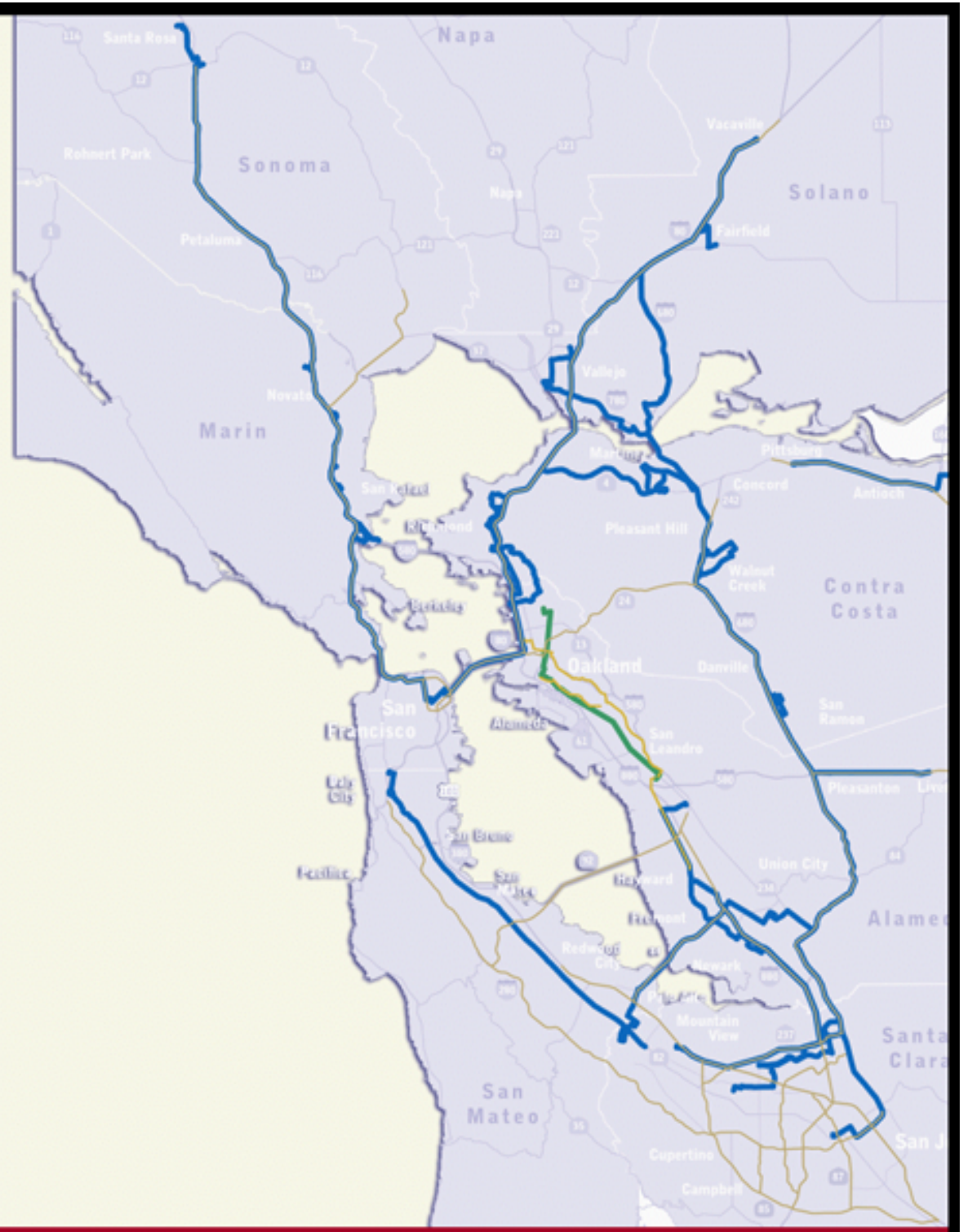
Regional Transit Expansion Program:

Express and Rapid Bus Routes



Legend

- Regional Express Bus Program—Phase 1
- AC Transit Enhanced Bus—Oakland/San Leandro
- AC Transit Enhanced Bus—Hesperian/Foothill/MacArthur

Regional Transit Expansion Program: Recommended Projects

Project	Cost (millions of 2001 $)
BART: Fremont to Warm Springs	$634
BART: Warm Springs to San Jose	$3,710
Muni Third Street Light Rail: Phase 2 — Central Subway	$647
BART/Oakland Airport Connector	$232
Caltrain Downtown Extension/Rebuilt Transbay Terminal	$1,885
Caltrain Rapid Rail/Electrification	$602
Caltrain Express: Phase 1	$127
Downtown to East Valley: Light rail and Rapid Transit Phase 1 (Enhanced Bus)	$518
Capitol Corridor: Phase 1 Expansion	$129
AC Transit Oakland/San Leandro Bus Rapid Transit: Phase 1 (Enhanced Bus)	$151
Regional Express Bus Phase 1	$40
Dumbarton Rail	$129
BART/East Contra Costa Rail Extension	$345
BART/Tri-Valley Rail Extension	$345
Altamont Commuter Express (ACE): Service Expansion	$121
Caltrain Express: Phase 2	$330
Capitol Corridor: Phase 2 Expansion	$284
Sonama-Marin Rail	$200
AC Transit Enhanced Bus: Hesperian/Foothill/Mac Arthur Corridors	$90
Total	**$10,519**

Regional Transit Expansion Program

Funding Strategy (part 1)

Project	Sponsor	Project Cost	COMMITTED FUNDING				
			TCRP	Sales Tax	Resolution 1876	RTIP/STP/ CMAQ	Other
BART to Warm Springs[1]	BART	634	111	193	205	25	12
BART: Warm Springs to San Jose[2]	VTA	3,710	614	2,262			
Muni Third Street Light-Rail Transit Project: Phase 2 — New Central Subway	SFCTA/Muni	647	140			75	
BART/Oakland Airport Connector[3]	BART	232		75		44	37
Caltrain Downtown Extension/Rebuilt Transbay Terminal[4]	SFCTA	1,885		27		23	1,573
Caltrain Rapid Rail/ Electrification[5]	JPB	602		345		47	95
Caltrain Express: Phase 1	JPB	127	127				
Downtown to East Valley Light-Rail and Bus Rapid Transit: Phases 1 and 2[6]	VTA	518		518			
Capitol Corridor: Phase 1 Expansion[7]	CCJPA	129	10			3	18
AC Transit Oakland/San Leandro Bus Rapid Transit: Phase 1 (Enhanced Bus)	AC Transit	151		23		17	
Regional Express Bus: Phase 1	MTC	40	40				
Dumbarton Rail	JPB	129		117			
BART/East Contra Costa Rail Extension[8]	CCTA/BART	345		59		20	
BART/Tri-Valley Rail Extension[9]	ACCMA/BART	345		10		16	47
Altamont Commuter Express (ACE): Service Expansion	ACE	121		32			
Caltrain Express: Phase 2	JPB	330		140			
Capitol Corridor: Phase 2 Enhancements[7]	CCJPA	284	18			18	
Sonoma-Marin Rail[10]	SMART	200	37				28
AC Transit Enhanced Bus: Hesperian/Foothill/MacArthur Corridors	AC Transit	90					
TOTAL		$10,519	$1,097	$3,801	$205	$288	$1,810

Regional Transit Expansion Program

Funding Strategy (part 2)

			REGIONAL DISCRETIONARY FUNDING							BLUEPRINT FUNDS	
Project	Sponsor	Project Cost	Section 5309 New Starts	RM-1 Rail	ITIP	Section 5309 Bus	AB 1171	CARB/ AB 434	Shortfall	Prop. 42 RTIP	Sales Tax
BART to Warm Springs[1]	BART	634		8	80				—		
BART: Warm Springs to San Jose[2]	VTA	3,710	834						—		
Muni Third Street Light-Rail Transit Project: Phase 2 — New Central Subway	SFCTA/Muni	647	432						—		
BART/Oakland Airport Connector[3]	BART	232		31	45				—		
Caltrain Downtown Extension/Rebuilt Transbay Terminal[4]	SFCTA	1,885		53	59		150		—		
Caltrain Rapid Rail/ Electrification[5]	JPB	602			65			50	—		
Caltrain Express: Phase 1	JPB	127							—		
Downtown to East Valley Light-Rail and Bus Rapid Transit: Phases 1 and 2[6]	VTA	518							—		
Capitol Corridor: Phase 1 Expansion[7]	CCJPA	129			98				—		
AC Transit Oakland/San Leandro Bus Rapid Transit: Phase 1 (Enhanced Bus)	AC Transit	151				111			—		
Regional Express Bus: Phase 1	MTC	40							—		
Dumbarton Rail	JPB	129			12				—		✔
BART/East Contra Costa Rail Extension[8]	CCTA/BART	345		52			115		99	✔	✔
BART/Tri-Valley Rail Extension[9]	ACCMA/BART	345		32			95		145	✔	
Altamont Commuter Express (ACE): Service Expansion	ACE	121			15				74	✔	
Caltrain Express: Phase 2	JPB	330							190	✔	✔
Capitol Corridor: Phase 2 Enhancements[7]	CCJPA	284			99				149	✔	✔
Sonoma-Marin Rail[10]	SMART	200							135	✔	✔
AC Transit Enhanced Bus: Hesperian/Foothill/MacArthur Corridors	AC Transit	90				27			63	✔	
TOTAL		$10,519	$1,266	$176	$473	$138	$360	$50	$855		

Service Characteristics

- 140 new route miles of rail
- 600 new route miles of express bus
- 58% average increase in service levels for existing corridors
- 38.6 million new riders per year (estimated for fully funded projects)
- Average cost effectiveness of $20.35 per new rider (estimated for fully funded projects)

Regional Transit Expansion Program

Criteria Evaluation Matrix (part 1)

Project	Sponsor[1]	Project Cost (millions/2001$)	Resolution 1876-Tier 1	TEA 21 Funds	TCRP	Dedicated Local Funding	Operations/ Maintenance
			Prior 1876 Tier 1 Commitment	TEA 21 Authorization or Other Federal Appropriations	TCRP or Other State-Level Commitments	Local Funds as a Percent of Total Capital Cost	Demonstrated Operating Plan
BART to Warm Springs	BART	$634	Yes	Yes	Yes	H	Yes
BART: Warm Springs to San Jose	VTA	$3,710	No	Yes	Yes	H	Yes
MUNI 3rd St. LRT Phase 2 - New Central Subway	SFCTA/Muni	$647	No	Yes	Yes	M	Yes
BART/Oakland Airport Connector	BART	$232	No	Yes	No	M	Yes
Caltrain Downtown Extension/ Rebuilt Transbay Terminal	SFCTA	$1,885	Yes	Yes	No	H	Yes
Caltrain Rapid Rail/Electrification	JPB	$602	No	No	No	H	Yes
Caltrain Express Phase 1	JPB	$127	No	No	Yes	L	Yes
Downtown East Valley: Light Rail and Bus Rapid Transit Phases 1 and 2	VTA	$518	No	No	No	H	Yes
Capitol Corridor Phase 1 Expansion	CCJPA	$129	No	No	Yes	L	Yes
AC Transit Oakland/San Leandro Bus Rapid Transit Phase 1 (Enhanced Bus)	AC Transit	$151	No	No	No	L	Yes
Regional Express Bus Phase 1	MTC/Transit Operators	$40	No	No	Yes	L	Yes
Dumbarton Rail	JPB	$129	No	No	No	H	No
BART/East Contra Costa Rail Extension	CCTA	$345	No	No	Yes	L	No
BART/Tri-Valley Rail Extension	ACCMA	$345	No	No	Yes	L	No
Altamont Commuter Express (ACE) Service Expansion	ACE	$121	No	No	No	L	—
Caltrain Express Phase 2	JPB	$3[illegible]	No	No	No	H	—
Capitol Corridor Phase 2 Enhancements	CCJPA	$284	No	No	Yes	L	Yes
Sonoma-Marin Rail	SMART	$200	No	No	Yes	L	No
AC Transit Enhanced Bus Hesperian/Foothill/MacArthur Corridors	AC Transit	$90	No	No	No	L	—

H High

M Medium

L Low

Note: "—" indicates complete information is not available

Regional Transit Expansion Program

Criteria Evaluation Matrix (part 2)

Project	Supportive Land Use		Cost-Effectiveness	System Connectivity			System Access	Project Readiness
	Residential Densities Around Stations	Employment Densities Around Stations	Cost Per New Transit Rider	Number of Connecting Operators	Frequency	Regional Gap Closures	Number of Modal Access Options	Number of Pre-construction Activities Completed or In Progress
BART to Warm Springs	M	M	M	M	H	No	H	M
BART: Warm Springs to San Jose	H	M	M	H	H	Yes	H	L
MUNI 3rd St. LRT Phase 2 - New Central Subway	H	H	L	H	H	No	H	H
BART/Oakland Airport Connector	M	M	H	M	H	Yes	H	M
Caltrain Downtown Extension/ Rebuilt Transbay Terminal	H	H	L	H	H	Yes	H	M
Caltrain Rapid Rail/Electrification	M	H	L	H	M	No	H	M
Caltrain Express Phase 1	M	H	H	H	M	No	H	H
Downtown East Valley: Light Rail and Bus Rapid Transit Phases 1 and 2	H	M	L	H	H	No	H	M
Capitol Corridor Phase 1 Expansion	H	M	H	H	L	No	H	M
AC Transit Oakland/San Leandro Bus Rapid Transit Phase 1 (Enhanced Bus)	H	H	H	L	H	No	H	L
Regional Express Bus Phase 1	–	–	H	M	–	Yes	H	H
Dumbarton Rail	M	M	L	H	L	Yes	H	L
BART/East Contra Costa Rail Extension	–	–	–	–	–	–	–	L
BART/Tri-Valley Rail Extension	–	–	–	–	–	–	–	L
Altamont Commuter Express (ACE) Service Expansion	M	M	H	M	L	No	M	–
Caltrain Express Phase 2	M	H	–	H	–	No	H	–
Capitol Corridor Phase 2 Enhancements	H	M	–	H	L	No	H	M
Sonoma-Marin Rail	L	M	–	H	L	No	H	L
AC Transit Enhanced Bus Hesperian/Foothill/MacArthur Corridors	H	M	H	L	H	No	H	–

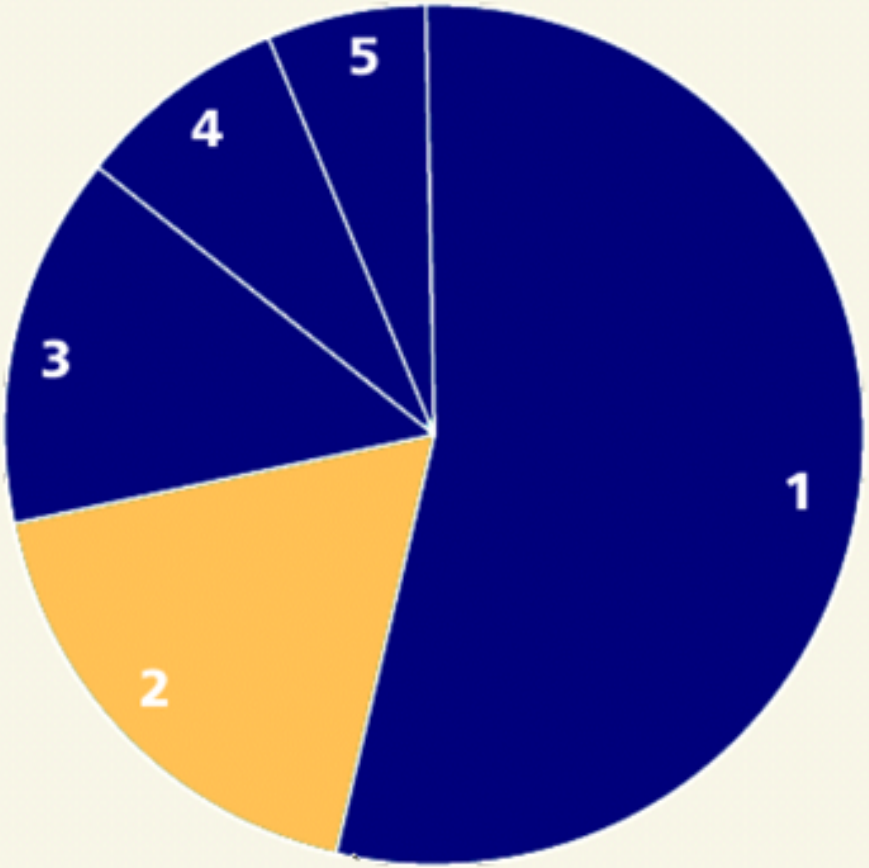
H High

M Medium

L Low

Note: "—" indicates complete information is not available

Funding Distribution



	By Source	Percent of Total
1	Local Funds	54%
2	Federal Funds	18%
3	State Funds	14%
4	Regional Funds	6%
5	Shortfall	8%
	TOTAL	100%

Federal Funds

MTC

METROPOLITAN TRANSPORTATION COMMISSION