



**METROPOLITAN
TRANSPORTATION
COMMISSION**

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Memorandum

TO: Partnership Technical Advisory Committee

DATE: April 14, 2008

FR: Lisa Klein

W. I.

RE: Transportation 2035: Investment Trade offs and Project Evaluation Status

At your meeting, MTC staff will provide a brief update on the project evaluation and will share a proposed approach to the framing the investment trade-off discussions to occur over the next few months.

Background materials are attached:

- 1) List of projects undergoing quantitative performance assessment (benefit/cost analysis)
- 2) Memo to the MTC Planning Committee outlining an approach to the trade-off discussions

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Attachment 1
Projects Identified for Quantitative Evaluation

The following projects are undergoing evaluation and are listed on the following pages, except as noted:

1. Roadway and transit projects, excluding projects analyzed in the Freeway Performance Initiative (approx 16 transit and 34 highway)
2. Projects (not listed on the following pages) evaluated in the Freeway Performance Initiatives in five corridors:
 - Alameda/Santa Clara I-680
 - Solano/Contra Costa I-680
 - Solano I-80
 - Sonoma/Marin US 101
 - San Mateo/Santa Clara US 101
3. HOT lanes scenarios (3 scenarios of approx 30 HOT project submittals)
4. Regional investment programs (7 programs)

Attachment 1: Projects Identified for Quantitative Evaluation
April 4, 2008

Note: Projects were proposed for Financially Constrained funding unless noted with "V" for Vision

RTP ID	Title	County	Capital Cost (M 2007\$)*	Notes
Transit				
230271	I-80 Express Bus Service	Alameda	70.0	
22667	Tri-Valley rail extension from Dublin/Pleasanton BART Station to Greenville Road in the I-580 median	Alameda	1,042.0	HOT revenue identified as potential funding source for
22516	V Enhance Capitol Corridor regional rail service (West Contra Costa and Solano county)	Contra Costa	0.0	
22343	V Express bus service expansion along I-680 corridor, Phase 2	Contra Costa	57.0	
22346	V Express bus service expansion along I-580 corridor	Contra Costa	50.0	
230252	Marin County Local Transit Expansion	Marin	56.0	
22415	Expand historic streetcar service	San Francisco	72.7	
230161	Van Ness Avenue BRT	San Francisco	76.1	
230164	Geary Boulevard BRT	San Francisco	190.5	
230207	Geneva/Harney Bus Rapid Transit	San Francisco	202.0	
Transit Priority Measures - 1 package				
21992	AC Transit Transit Priority Measures (TPM) and Corridor	Alameda	14.8	Evaluate as bundle
230111	V AC Transit--Transit Priority Measures (TPM), Corridor and Bridge Improvements	Alameda	133.5	
230060	Marin County Local Transit Enhancement on 6 Key Corridors	Marin	27.3	
22420	Bus Rapid Transit (BRT)/Transit Preferential Streets (TPS) (sales tax project)	San Francisco	418.2	
Roadway				
22013	Eastbound I-580 Truck Climbing Lane	Alameda	83.5	
22657	V I-580 (Altamont Pass) Westbound Truck Climbing Lane	Alameda	75.6	DB listing "In Review"; not in county list
22671	Construct direct HOV connection between southbound I-880 to westbound Route 84 (Dumbarton Bridge approach)	Alameda	125.0	
22776	Route 84 Expressway Widening	Alameda	124.0	
94506	East-West Connector Project in North Fremont and Union City	Alameda	150.0	
230099	I-580/I-680 Improvements (NB I-680 to WB I-580)	Alameda	392.5	DB listing "In Review" but in County list
230405	I-580 Improvements	Alameda	175.0	
21205	I-680/Route 4 interchange (phase 1, 2 and 3)	Contra Costa	172.2	Evaluate as bundle
22350	V I-680/Route 4 interchange improvements (Phases 4 and 5) and HOV flyover ramps	Contra Costa	148.0	
22352	I-680/Norris Canyon Road HOV direct ramps in San Ramon	Contra Costa	80.0	
22400	V Construct Route 239 from Brentwood to Tracy Expressway	Contra Costa	200.0	
98222	Route 4 Bypass, Segment 1: Route 160 freeway-to-freeway connectors to and from the north	Contra Costa	44.0	Evaluate as bundle
22605	V SR4 Bypass, Segments 1 & 2: widen from 4 to 6 lanes from Sand Creek to Balfour, and widen segment 3 to 4 lane	Contra Costa	143.5	
230208	V State Route 4 Bypass: Widen from 4 to 6 lanes from Laurel Road to Sand Creek Road	Contra Costa	31.5	
22981	V Widen Route 4 as continuous 4-lane arterial from Marsh Creek Road to San Joaquin County line	Contra Costa	100.0	
94050	V Upgrade Route 4 to full freeway from I-80 to Cummings Skyway (Phase 2)	Contra Costa	75.0	
21030	V I-580/US 101 interchange improvements and new freeway-to-freeway connector from northbound US 101 to eastbound I-580	Marin	98.0	
21612	Improvement of Dumbarton Bridge access to US 101	San Mateo	93.7	
21613	Route 92 improvements from San Mateo Bridge to I-280, includes uphill passing lane from US 101 to I-280	San Mateo	186.2	
94644	Route 92 westbound slow vehicle lane between Route 35 and I-280	San Mateo	81.1	
21714	SR 25/Santa Teresa Boulevard/US 101 Interchange (includes US 101 widening between Monterey Road and SR 25 and connection to Santa Teresa Blvd)	Santa Clara	233.0	
22145	Widen westbound Route 237 on-ramp from Route 237 to northbound US 101 to 2 lanes and add auxiliary lane on northbound US 101 from Route 237 on-ramp to	Santa Clara	9.0	Evaluate as bundle
22958	V US 101 southbound to eastbound Route 237 connector improvements	Santa Clara	55.0	DB listing "Not Completed"; verbal confirmation

* Costs as entered in RTP database as of 3/28/08. Subject to update.

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April 4, 2008

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RTP ID	Title	County	Capital Cost (M 2007\$)*	Notes
22162	Route 237 westbound to Route 85 southbound connector ramp improvements	Santa Clara	37.0	DB listing "Not Completed"; verbal confirmation
230294	V New SR 152 Alignment: SR 156 to US 101	Santa Clara	300.0	
230403	V US 101 Widening to 6-lane Freeway: SR 25 to SR 129	Santa Clara	170.0	
22624	V Construct continuous 4-lane Jepson Parkway from Suisun City to Vacaville	Solano	177.7	DB listing "Not Completed"; verbal confirmation
94151	Construct 4-lane Jepson Parkway from Route 12 to Leisure Town	Solano	182.0	
22700	Parallel corridor north of I-80 from Red Top Road to Abernathy Road (the western section extends from the railroad crossing on	Solano	68.0	
230326	I-80/I-680/SR12 Interchange - Phase 1	Solano	513.0	
230327	V I-80/I-680/SR12 Interchange (Balance of Project)	Solano	670.0	
230571	V I-80 HOV widening from SR 37 to Red Top Road	Solano	140.0	
230477	SR 12 Improvements: Phase 1	Solano	100.0	
230496	SR 12 Improvements: Phase 2	Solano	150.0	
HOT Lanes Packages				
1 Regional HOT Network				
230369	Regional Express Bus for HOT Network	Bay Area Regic	239.9	
230070	Regional HOT Network	Bay Area Regic	4,800.0	
2 Alameda HOT Corridors				
230277	I-880 Express Bus Service	Alameda	15.0	
230152	Northwest Livermore Bus Rapid Transit	Alameda	4.1	
230163	I-580 Express Bus Service	Alameda	3.1	
230165	I-680 Express Bus Service	Alameda	10.4	
230609	I-880 convert HOV to HOT lanes: SB: Hegenberger to Santa Clara County line; Northbound: Santa Clara county line to Hegenberger	Alameda	80.0	
230088	I-880 Northbound HOV/HOT Extension from north of Hacienda to Hegenberger - Phase 1	Alameda	156.0	
230089	I-880 NB HOV/HOT Extension from north of Hacienda to Hegenberger - Phase 2	Alameda	52.0	
22042	Widen I-680 for NB HOV/HOT lane from Route 237 to Stoneridge Dr	Alameda	303.0	
22668	Add NB and SB I-680 HOV/HOT lanes: Route 84 and Alcosta Blvd	Alameda	320.0	
230405	I-580 Improvements (includes I-580 HOT lanes)	Alameda	175.0	
230241	I-238 HOV/HOT lane	Alameda	540.0	
3 Santa Clara HOT corridors				
230248	SR 85 HOT Lanes: US 101 (S San Jose to Mountain View)	Santa Clara	72.0	
230254	US 101 HOT Lanes: San Mateo Countyline to SR 85 (Mountain View) (Conversion)	Santa Clara	12.0	
230280	US 101 HOV/HOT Lanes: 10th Street to SR 25	Santa Clara	43.0	
230278	US 101 HOV/HOT Lanes: Masten Avenue to 10th Street	Santa Clara	59.0	
230264	US 101 HOV/HOT Lanes: Cochrane Road to Masten Avenue	Santa Clara	93.0	
230258	US 101 HOT Lanes: SR 85 (S San Jose) to Cochrane Rd	Santa Clara	23.0	
230259	US 101 HOT Lanes: SR 85 (Mountain View) to SR 85 (S San Jose) (Conversion)	Santa Clara	90.0	
230404	SR 87 HOT Lanes: SR 85 to US 101 (Conversion)	Santa Clara	30.0	
230260	I-880 HOT Lanes: Alameda Countyline to US 101 (Conversion)	Santa Clara	20.0	
230276	I-880 HOV/HOT Lanes: US 101 to I-280	Santa Clara	160.0	
230275	I-680 HOV/HOT Lanes: Calaveras Boulevard to US 101	Santa Clara	30.0	
230270	I-280 HOT Lanes: Leland to Magdalena (Conversion)	Santa Clara	50.0	
230281	I-280 HOV/HOT Lanes: SB El Monte to Magdalena	Santa Clara	12.0	
230272	I-280 HOT Lanes: US 101 to Leland	Santa Clara	21.0	
230256	SR 237 HOT Lanes: I-880 to Mathilda Avenue (Conversion)	Santa Clara	20.0	
230263	SR 237 HOV/HOT Lanes: Mathilda Avenue to SR 85	Santa Clara	70.0	
230257	SR 237 HOT Connectors (Milpitas) to I-880 (conversion)	Santa Clara	5.0	
			Program Cost (M 2007\$)	
Regional Investment Programs				
230419	Freeway Performance Initiative	Bay Area Regic	1,300.0	
21011	Transportation for Livable Communities (TLC) - regional and county	Bay Area Regic	1,500.0	
22247	Regional Bicycle Network	Bay Area Regic	1,300.0	
230287	Goods Movement Emission Reductions Project	Bay Area Regic	102.5	
230550	Transportation Climate Action Plan	Bay Area Regic	184.0	5-year program

* Costs as entered in RTP database as of 3/28/08. Subject to update.

**Attachment 1: Projects Identified for Quantitative Evaluation
April 4, 2008**

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RTP ID	Title	County	Capital Cost (M 2007\$)*	Notes
22423	Lifeline Transportation Program	Bay Area Regic	1,600.0	
230414	Means-Based Fare Assistance	Bay Area Regic	1,200.0	

* Costs as entered in RTP database as of 3/28/08. Subject to update.



As presented to the Planning
Committee on April 11, 2008

PTAC - Item 5C

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Memorandum

TO: Planning Committee

DATE: April 11, 2008

FR: Deputy Executive Director, Operations

W. I.

RE: Transportation 2035 Plan: Financial Estimates/ Project Tradeoff Framework

Over the past few months staff has sought Commission input and approval on several aspects of the Transportation 2035 Plan that include: goals and objectives; project performance objectives; vision policy strategies; defining committed projects/funding; and road and transit shortfalls.

We are now at a point in the RTP process when we need to begin thinking about how we might frame tradeoff discussions for the plan's financially constrained element using the evaluation structure that has been previously approved by the Commission. The attached slides provide some background on past Commission decisions and financial estimates that can be used to define a framework for how we might approach tradeoff decisions. These decisions will need to occur over the next 4 months and will ultimately lead the Commission to select a preferred financially constrained investment plan in July 2008.

Staff will be available at the meeting to present the attached information and answer Committee questions.

//Ann Flemer//

Ann Flemer

AF:DK

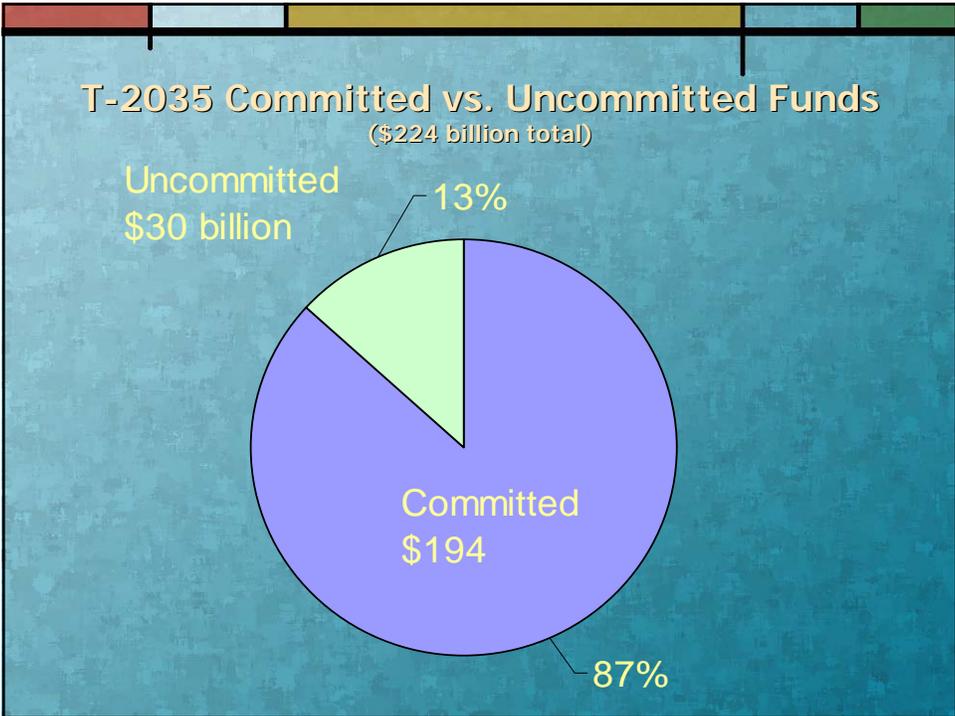
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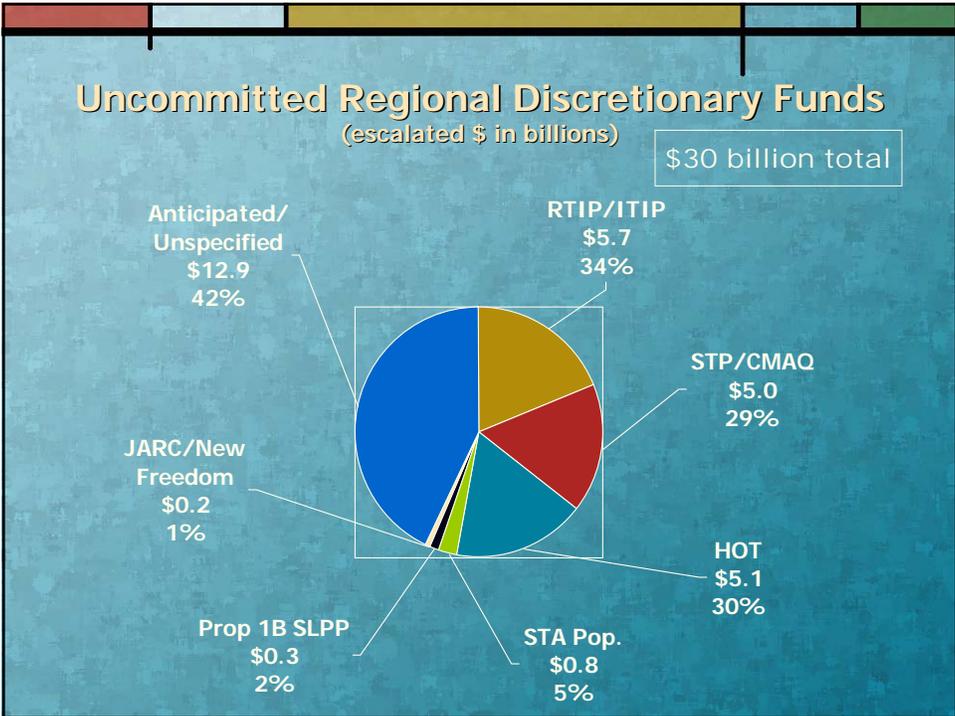
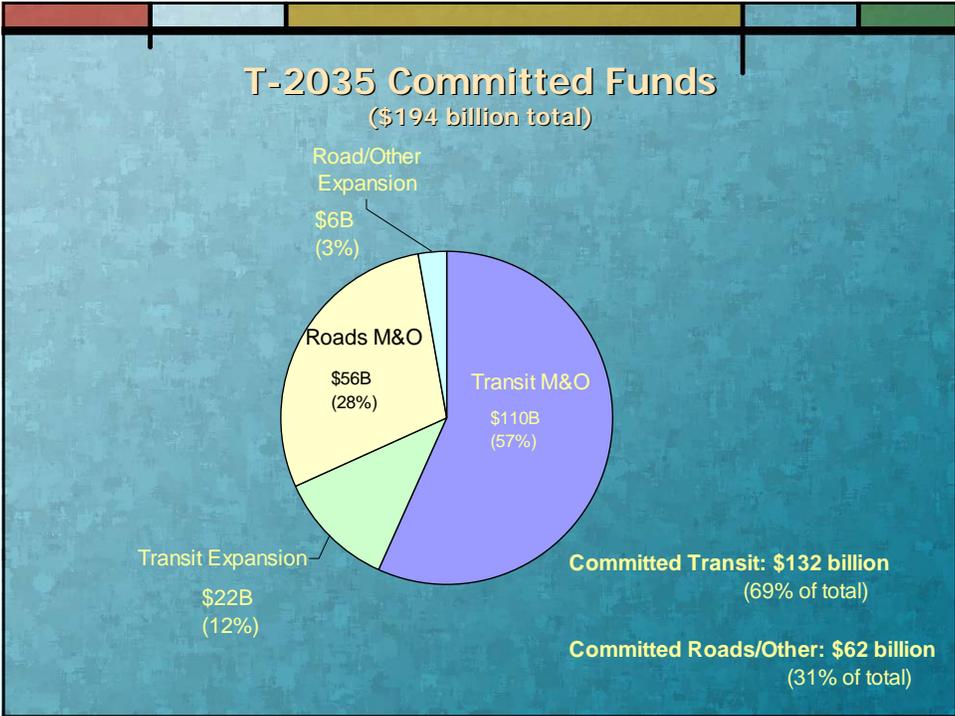


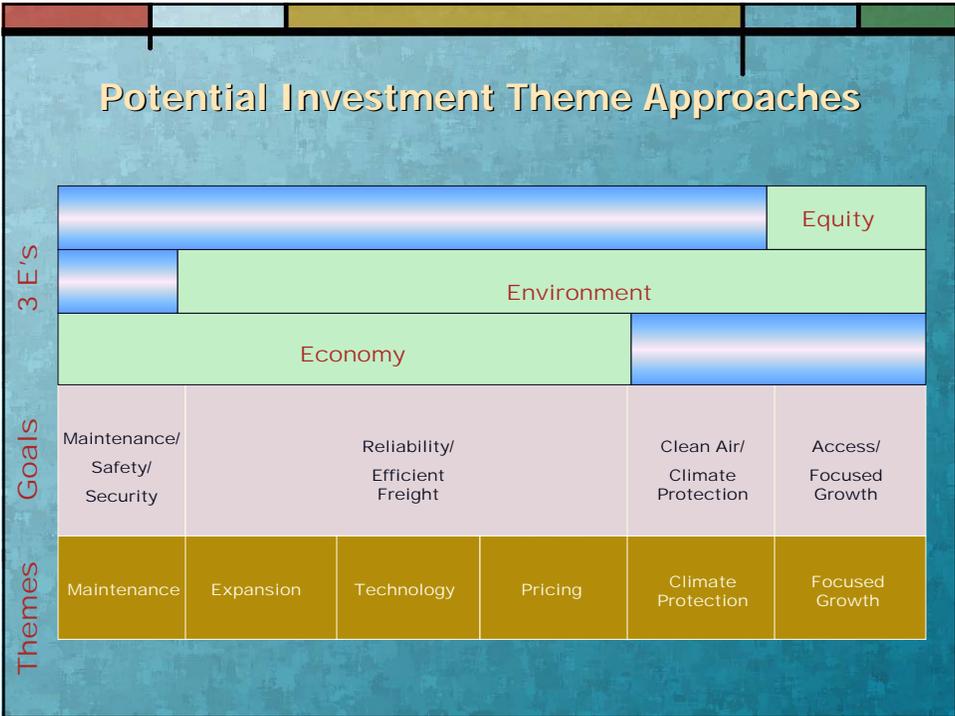
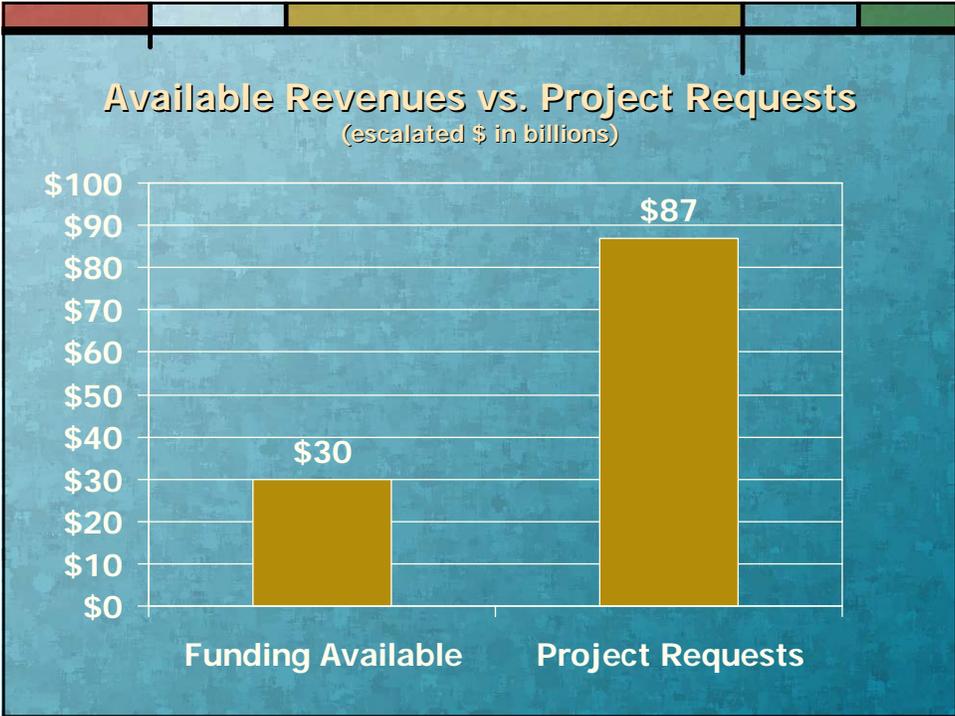
**TRANSPORTATION
2035
CHANGE IN MOTION**

Developing a Project Tradeoff Framework

Planning Committee
April 11, 2008

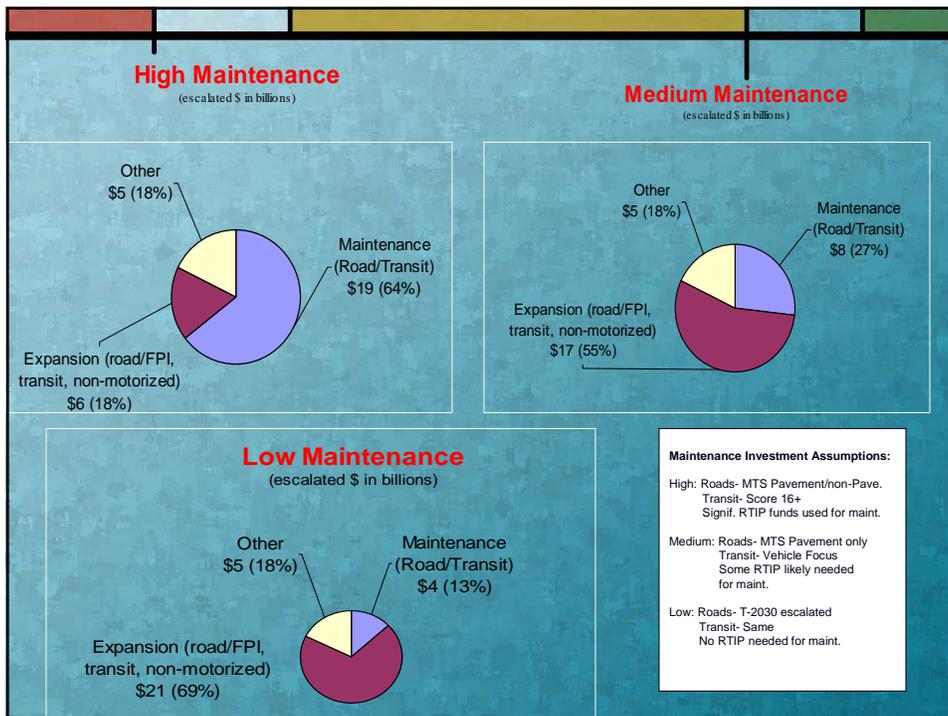


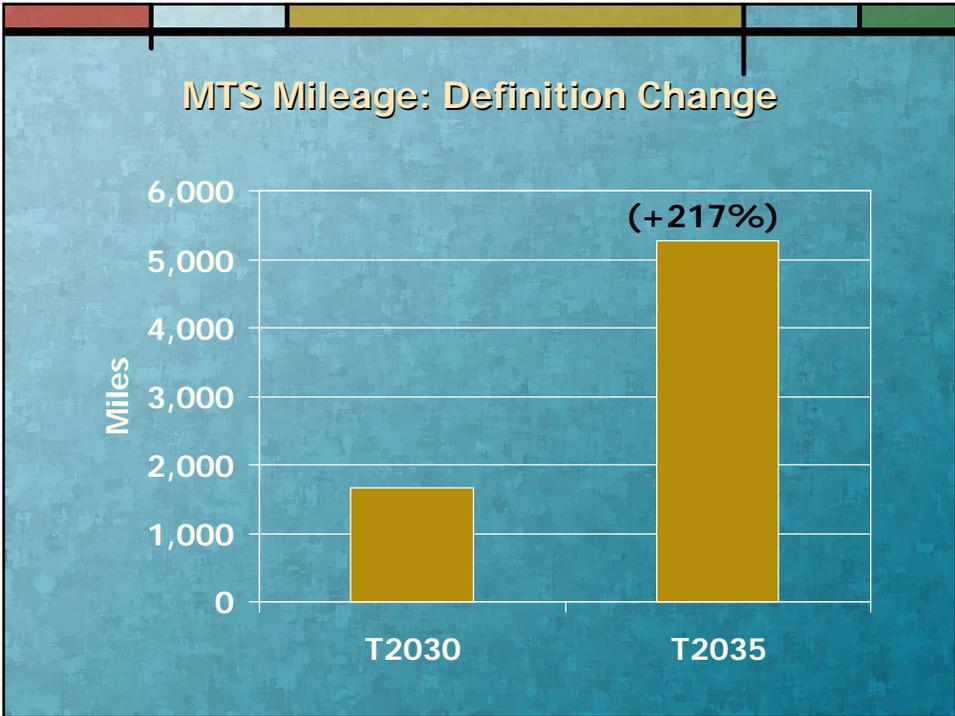
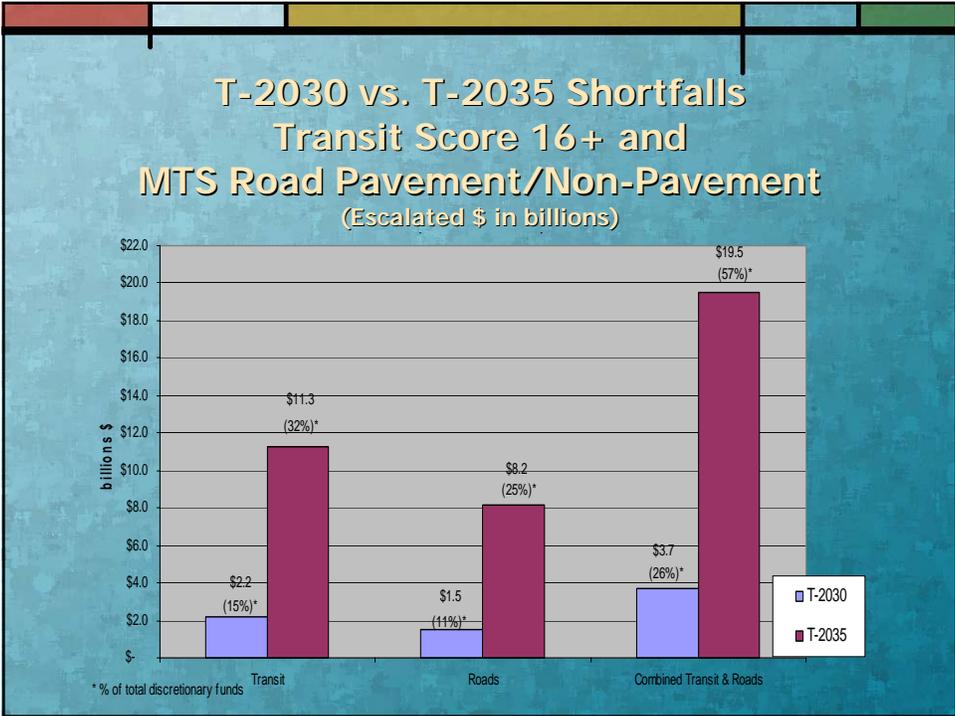




Potential High Priority Projects by Theme (Illustrative – not an exhaustive listing)

Theme	Maintenance	Expansion	Technology	Pricing	Climate Protection	Focused Growth
Potential Projects	<ul style="list-style-type: none"> Road/ Transit Maintenance Road realignment Complete Streets Grade Separations 	<ul style="list-style-type: none"> HOV/HOT lane FPI Strategic Capacity Interchange Reconstruction Fwy-to-Fwy Interchanges Regional Bike Network Res. 3434 Other transit expansion 	<ul style="list-style-type: none"> FPI auxiliary lanes Regional ramp metering & TOS Smart arterials Transit efficiency/BRT 	<ul style="list-style-type: none"> HOT Lanes/ toll-funded express bus 	<ul style="list-style-type: none"> Targeted climate protection programs Transit efficiency Transit expansion Non-motorized Smart arterials 	<ul style="list-style-type: none"> Projects supporting PDAs/Smart Growth areas: <ul style="list-style-type: none"> Transit Non-motorized Local roads Smart arterials Road/transit maintenance TOD/TLC Lifeline





Transportation 2035 Schedule

April	Investment Tradeoff Discussions
May	Review Performance Evaluation Results Discuss Investment Tradeoff Options
June	Preliminary Investment Plan
July	Approve Investment Plan

- ### Investment Tradeoff Questions
- Maintenance
- What should be the focus of the region's maintenance commitment?
 - Should we invest at the same % as T-2030?
- Technology
- Should squeezing more capacity out of our existing system take priority over system expansion?
- Expansion
- Should gap closures (HOV, bike, Lifeline) be highest expansion priority?

Investment Tradeoff Questions

Pricing

- What are the priorities for spending net HOT revenues?

Climate Change

- What priority investments should the region advance to address climate protection?

Focused Growth

- Should projects that support PDAs or compact growth be given priority?