MAKING A COMPELLING CASE:

PERFORMANCE-DRIVEN INVESTMENTS IN THE POST-INTERSTATE ERA

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Impetus for Enhanced Performance Analysis: We've run out of money - now we'll have to start thinking!



Establishing a Level Playing Field: *How do you compare a pothole to a BRT?*

Performance Assessment in the MAP-21 Era: Do more with less, or less with less?

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POTENTIAL MPO & STATE DOT PERFORMANCE RESPONSIBILITIES

Yesterday: Performance Monitoring *Today:* Performance-Based Planning

Tomorrow: Performance-Based Programming States and metropolitan areas across the country are struggling with limited funding in a time of growing maintenance backlogs.

This results in significant challenges when pursuing ambitious targets for system performance.

It places a premium on matching constrained expansion dollars to the right expansion projects.



TOP 20 MPOS: O&M VERSUS EXPANSION FUNDING

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CMAP Chicago	98%	
NYMTC New York	97%	
SPC Pittsburgh	97%	
BMPO Boston	94%	
DVRPC Philadelphia	92%	
EWGCOG St. Louis	89%	
NJTPA Newark	88%	
MTC San Francisco	87%	
SEMCOG Detroit	87%	
ARC Atlanta	74%	
0	% 25% 50% 75%	100%
	■ O&M ■ Expansion	. There .

MWCOG		l
Washington	70%	
SCAG		
.os Angeles	60%	
PSRC Seattle	57%	
SANDAG	55%	
H-GAC	55%	
MAG	53%	787
Phoenix		
DRCOG	50%	
Denver		
NCTCOG	40%	
Dallas		1
BMC Baltimore	insufficient data provided by MPO	
MC Minneapolis	insufficient data provided by MPO	
0	<mark>% 25% 50% 75%</mark> 10	0%
en e	■ O&M ■ Expansion	6

Funding constraints and ambitious targets are not the only performance challenges for MPOs and state DOTs. **Decision-making authority is** widely dispersed across many levels of government, making it challenging to advance toward goals and to maximize accountability.



Federal Government



State Government



MPO

Transit Agencies



County Government



City Government

Image Sources: http://upload.wikimedia.org/wikipedia/commons/6/64/Cabitol at Dusk 2, jog: http://www.flickr.com/photos/mathoov/4597824408/sizes/m/: http://www.flickr.com/photos/lazytom/387649124/sizes/m/: http://www.flickr.com/photos/ta2cute/4407

Performance assessment is not for the faint of heart.

Establish Performance Targets

Α

LONG-RANGE

PLANNING

PROCESS

B

E

Assess Project Performance

Assess Scenario Performance

Assess Plan/EIR Performance

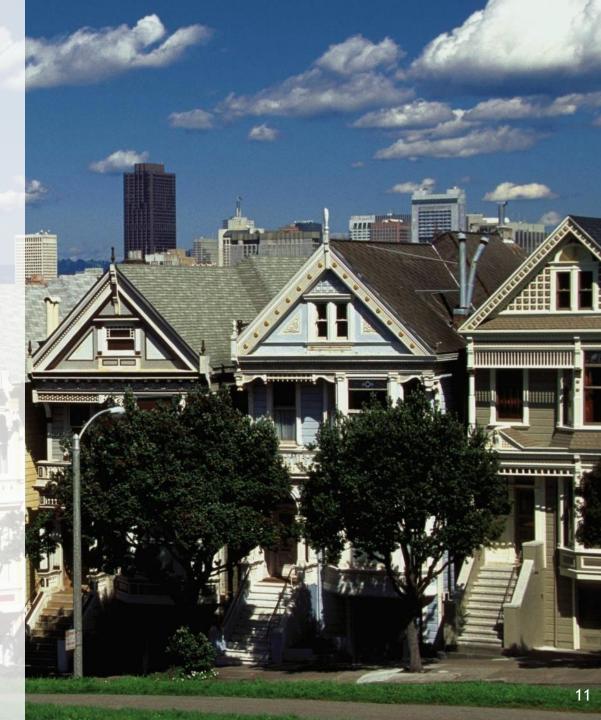
Monitor Performance of Adopted Plan

BRIEF HISTORY OF PERFORMANCE ASSESSMENT AT MTC

Year	2001	2005	2009	2013
	2001 REGIONAL Transportation Plan	TRANSPORTATION 2030	TRANSPORTATION 2035 CHANGE IN MOTION	BayArea
Scenario Planning	Transportation investment packages	Transportation investment packages	Transportation investment packages	Integrated transportation & land use scenarios
Performance Targets	Transportation targets	Transportation targets	Transportation targets	Integrated targets
QUALITATIVE PROJECT ASSESSMENT	None	Goals-based	Goals-based	Targets-based
QUANTITATIVE PROJECT ASSESSMENT	None	None	Limited benefit- cost analysis	Rigorous benefit- cost analysis
NUMBER OF PROJECTS ANALYZED	0	400	700	>1,000



- First regional plan to integrate transportation, land use, and housing
 - Sustainable Communities Strategy initiated by California Senate Bill 375





Increase gross regional product



TRANSPORTATION SYSTEM EFFECTIVENESS Increase non-auto mode share

Reduce VMT per capita

Maintain the transportation system



Reduce per-capita greenhouse gas emissions from cars and light-duty trucks



Direct all nonagricultural development within the urban footprint



HEALTHY

AND SAFE

Reduce premature deaths from exposure to particulate emissions

Reduce injuries and fatalities from collisions

COMMUNITIES Increase average daily time spent walking or biking

EQUITY

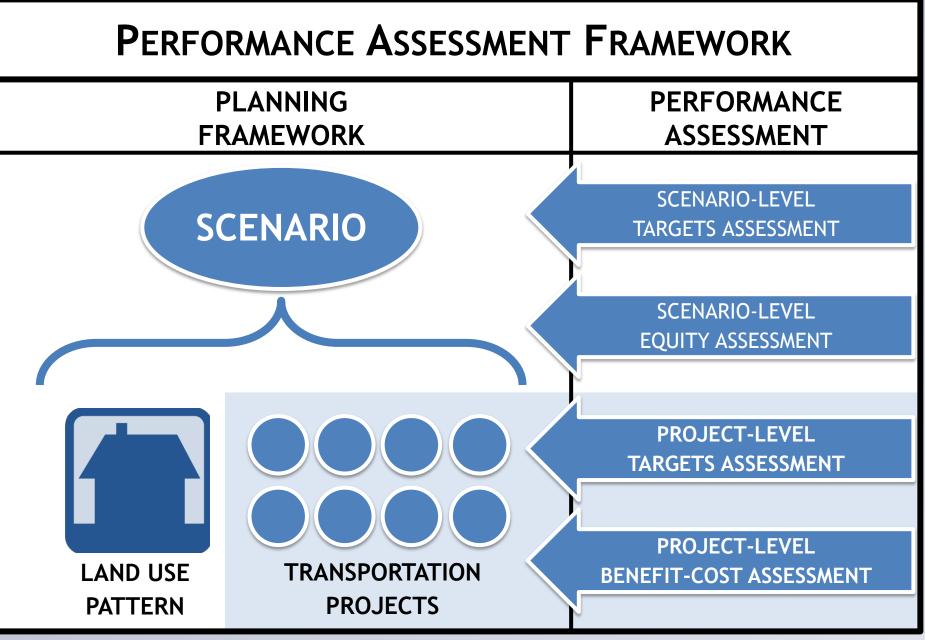
ENVIRONMENT



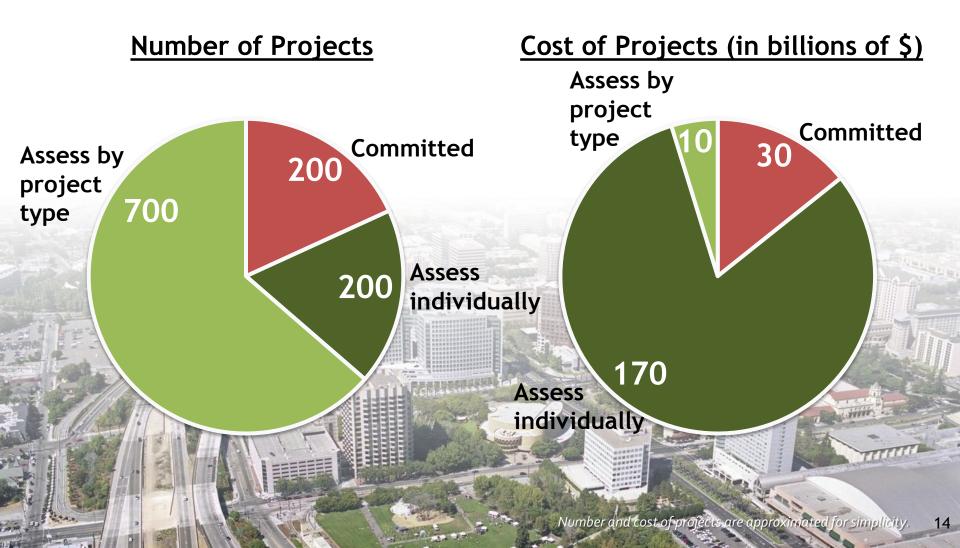
House all of the region's projected housing growth



Decrease housing and transportation costs as a share of low-income household budgets



Only projects that have environmental clearance <u>and</u> full funding secured are treated as committed. This effectively means that only projects under construction or about to begin construction are exempt from performance analysis.



TWO ELEMENTS OF PROJECT PERFORMANCE ASSESSMENT

TARGETS ASSESSMENT

Determine impact on targets adopted by MTC and ABAG

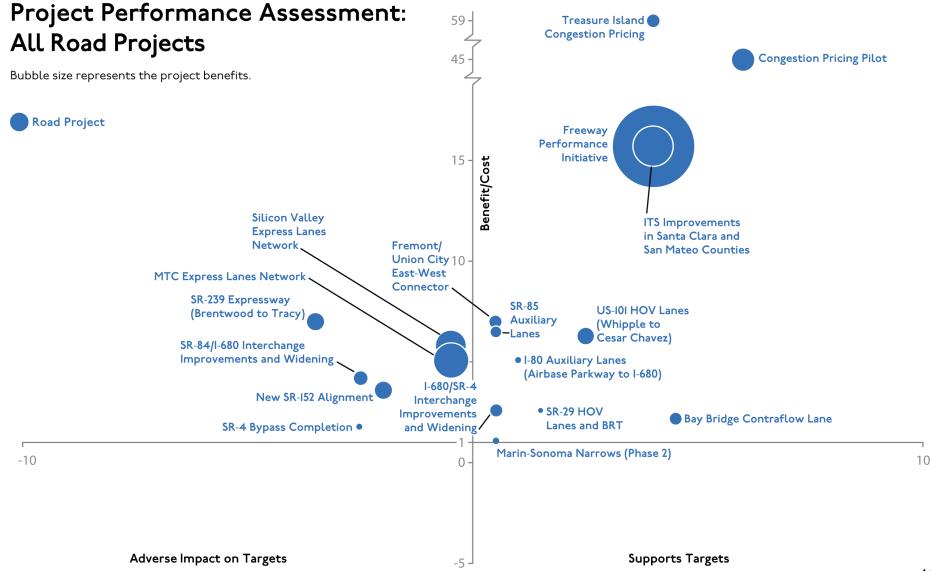
Analyzed all 900 uncommitted projects

BENEFIT-COST ASSESSMENT

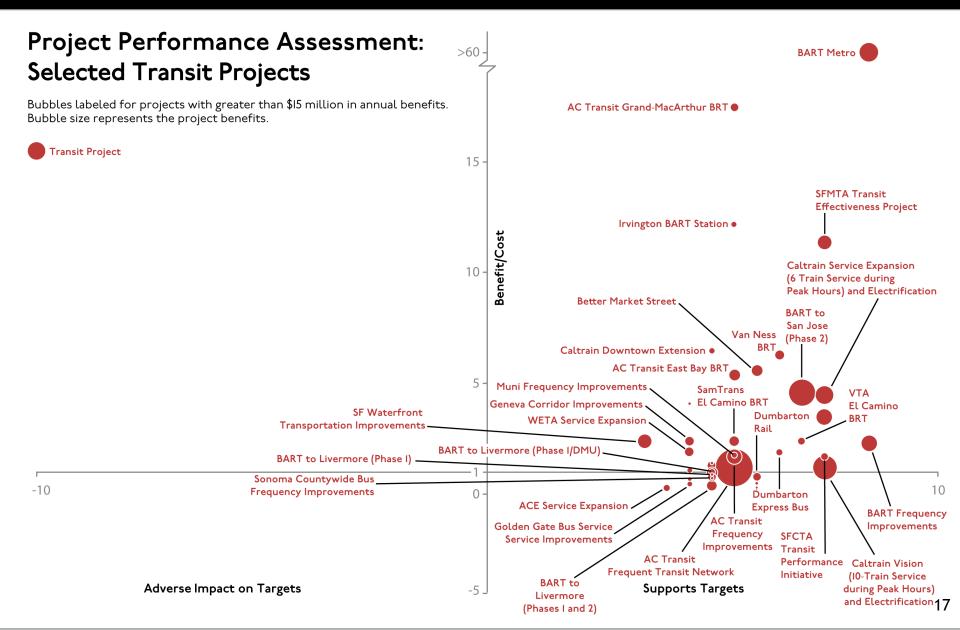
Compare benefits & costs

Analyzed most significant projects (approximately 100 in total)

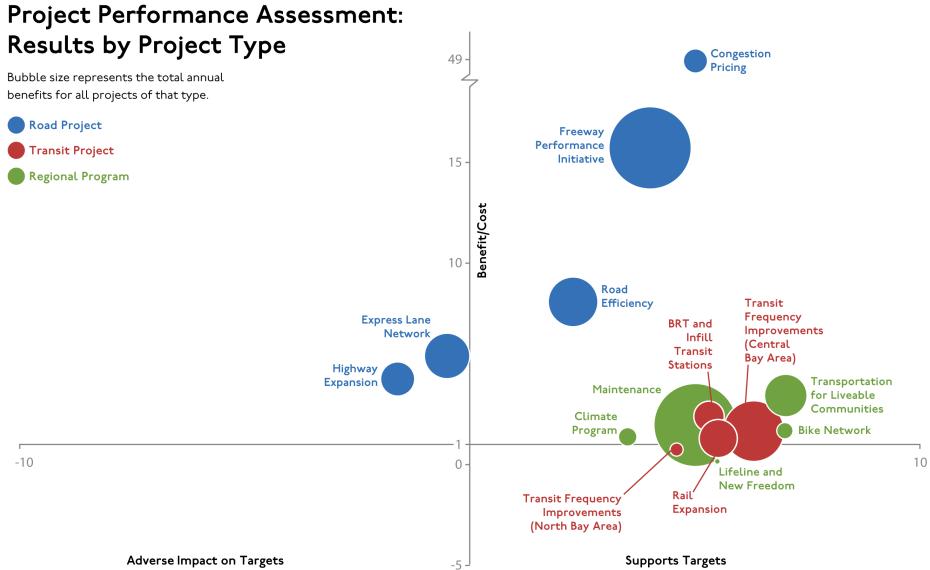
Individual project evaluation allows for greater transparency and accountability.



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Analysis results can also be summarized by project type to highlight the performance of overall strategies.



SAMPLE HIGH-PERFORMING **PROJECTS**

PRIORITIZED FOR REGIONAL FUNDING



SAMPLE **MODERATE-**PERFORMING **PROJECTS**

"NOTHING TO SEE HERE, MOVE ALONG"



RAIL

SAMPLE LOW-Performing **PROJECTS**

REQUIRED COMPELLING CASE FOR INCLUSION IN PLAN



FREEWAY WIDENING (US-101 & SR-239)

IMPLICATIONS OF COMPELLING CASE REQUIREMENT FOR LOW-PERFORMING PROJECTS



Projects re-scoped:

(7) Environmental phase only
(5) Sponsor agreed to fully fund project locally
(1) Down-scoped to achieve B/C ratio greater than 1

8

Compelling cases approved:

(6) Communities of Concern(1) Air quality(1) Recreational trips

Case slated for rejection; "settled out of court"

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LESSONS LEARNED FROM PLAN BAY AREA PERFORMANCE ASSESSMENT

- Given the limited budget for expansion projects, performance data can make the difference.
- Performance results helped to advance good projects <u>and</u> weed out bad ones.
- Tread carefully when picking:
 a. performance objectives
 b. which projects to evaluate
- Incorporating state of good repair investments into this performance-based framework is a critical next step.



HOW CAN STATES & MPOS WORK TOGETHER TO MAXIMIZE THE EFFICACY OF MAP-21?

- Given all of the challenges related to target-setting and the dispersal of authority between federal, state, regional, and local entities close collaboration between states and MPOs will be critical to make the federal performance process meaningful.
- While MAP-21's target-setting deadlines imply a "top-down" approach where states set targets and metropolitan areas follow, a more collaborative approach would be more effective for all stakeholders.
 - MPOs should be active participants in the state target-setting process; a successful process could even develop state targets based on the best of regional goals.

How CAN STATES & MPOS WORK TOGETHER TO MAXIMIZE THE EFFICACY OF MAP-21?

MPOs should begin their regional target-setting work as soon as performance measures are finalized; this will maximize consistency with state targets and provide time for necessary analyses related to economic impacts, funding constraints, etc.

California's target-setting process to comply with the requirements of Senate Bill 375 may be an effective blueprint for MAP-21 target-setting in our state and across the country.

By developing the Regional Targets Advisory Committee (RTAC) to seek regional input on realistic greenhouse gas targets, the state was able to align differing regional targets with an overall state mandate; this effort resulted in productive dialogue between urban and rural regions and between key stakeholders.

On performance measures, states and MPOs can either sink or swim together.

I vote against sinking.

To download today's slides: http://files.mtc.ca.gov/pdf/SSTI_Performance.pdf