



#### Impetus for Enhanced Performance Analysis:

We've run out of money - now we'll have to start thinking!

2

Establishing a Level Playing Field:

How do you compare a pothole to a BRT?

3

Performance Assessment in the MAP-21 Era:

Do more with less, or less with less?

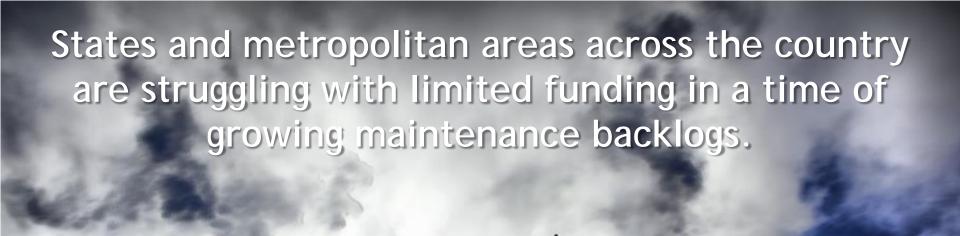
## POTENTIAL MPO & STATE DOT PERFORMANCE RESPONSIBILITIES

*Yesterday:*Performance
Monitoring

Today:
PerformanceBased
Planning

Tomorrow:

Performance-Based Programming

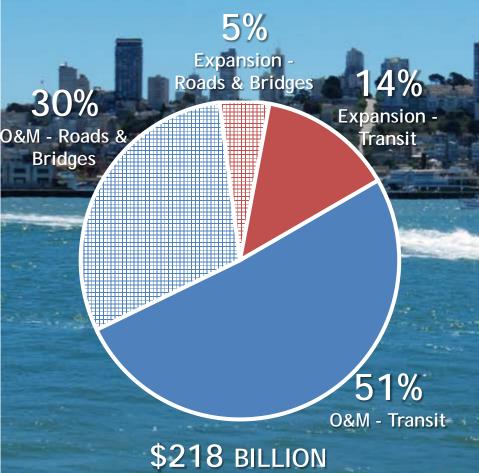


This results in significant challenges when pursuing ambitious targets for system performance.

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

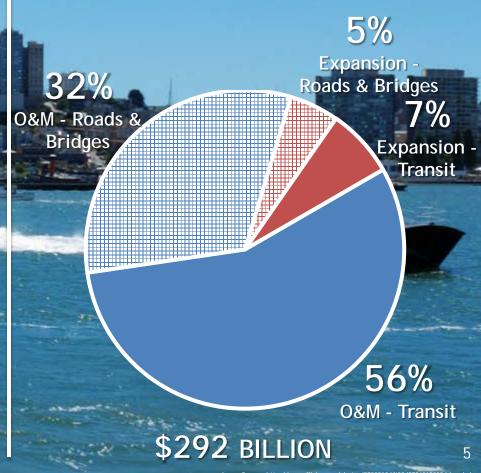
PREVIOUS RTP (ADOPTED IN 2009)



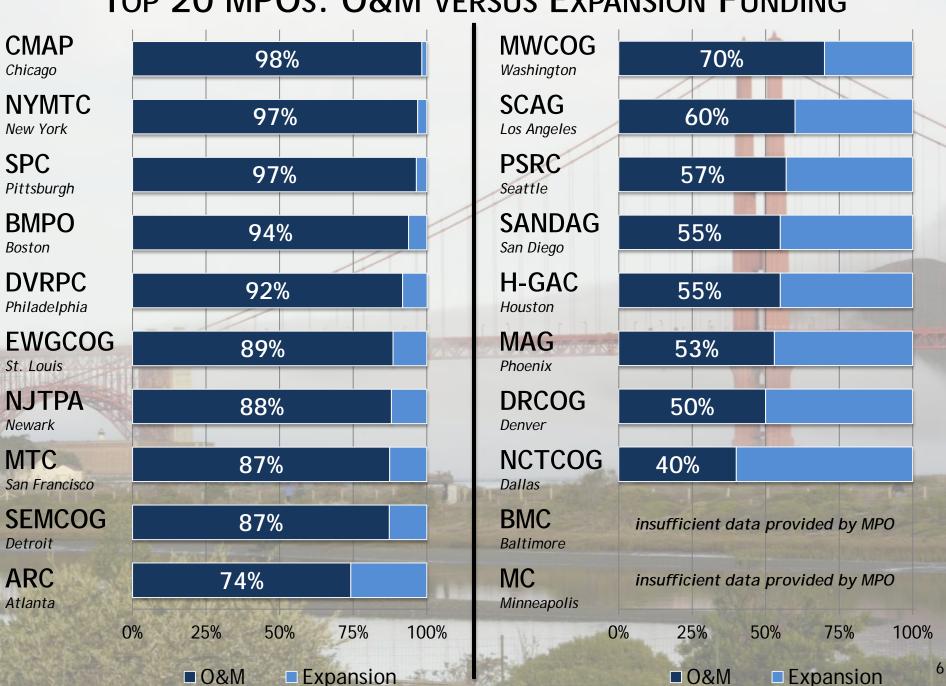


CURRENT RTP (ADOPTED IN 2013)

# BayArea



#### TOP 20 MPOs: O&M VERSUS EXPANSION FUNDING



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** 



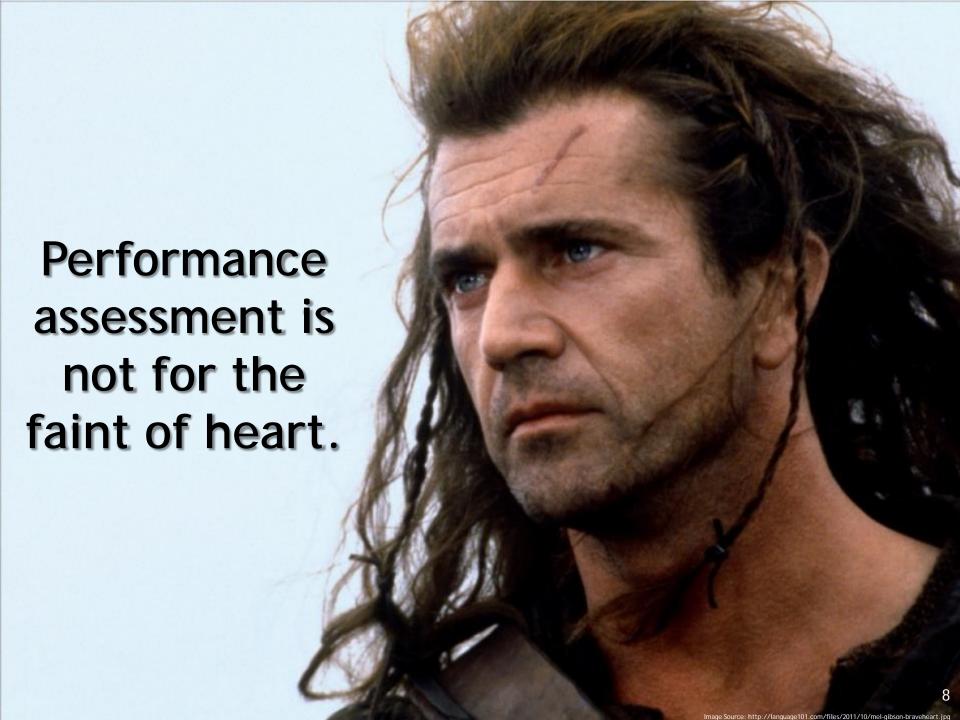
Transit Agencies



**County Government** 



City Government





#### BRIEF HISTORY OF PERFORMANCE ASSESSMENT AT MTC

Year	2001	2005	2009	2013
	2001 REGIONAL TRANSPORTATION PLAN	TRANSPORTATION 200	TRANSPORTATION 2035 CHANGE IN MOTION	Plan  BayArea  Annual Property of the Company of th
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

### Plane BayArea

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





Increase gross regional product



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



OPEN SPACE AND AGRICULTURAL PRESERVATION

Direct all nonagricultural development within the urban footprint



Reduce injuries and fatalities from collisions

Reduce premature deaths

from exposure to

particulate emissions

COMMUNITIES Increase average daily time spent walking or biking



House all of the region's projected housing growth



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

#### Performance Assessment Framework

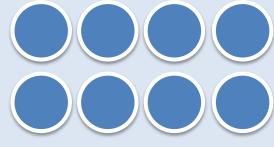
PLANNING FRAMEWORK PERFORMANCE ASSESSMENT

**SCENARIO** 

SCENARIO-LEVEL
TARGETS ASSESSMENT

SCENARIO-LEVEL EQUITY ASSESSMENT

LAND USE PATTERN

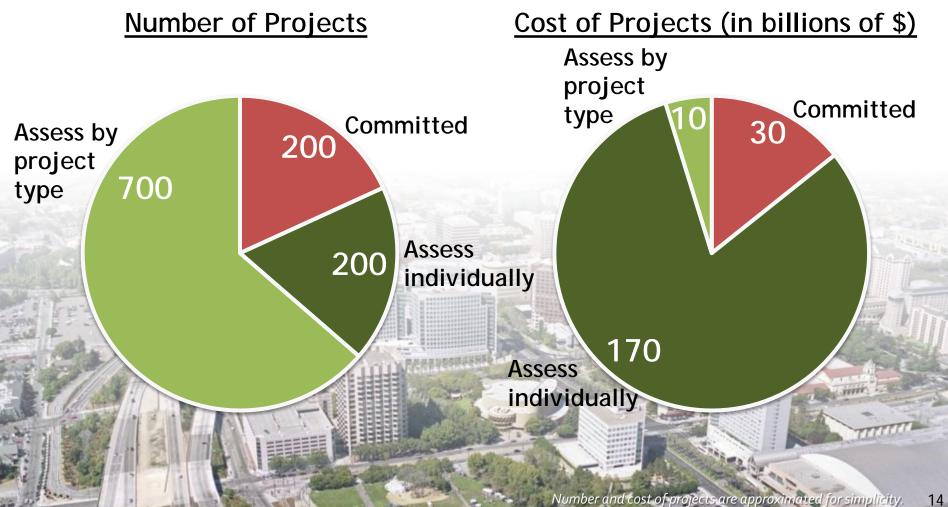


TRANSPORTATION PROJECTS

PROJECT-LEVEL
TARGETS ASSESSMENT

PROJECT-LEVEL
BENEFIT-COST ASSESSMENT

Only projects that have environmental clearance and 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

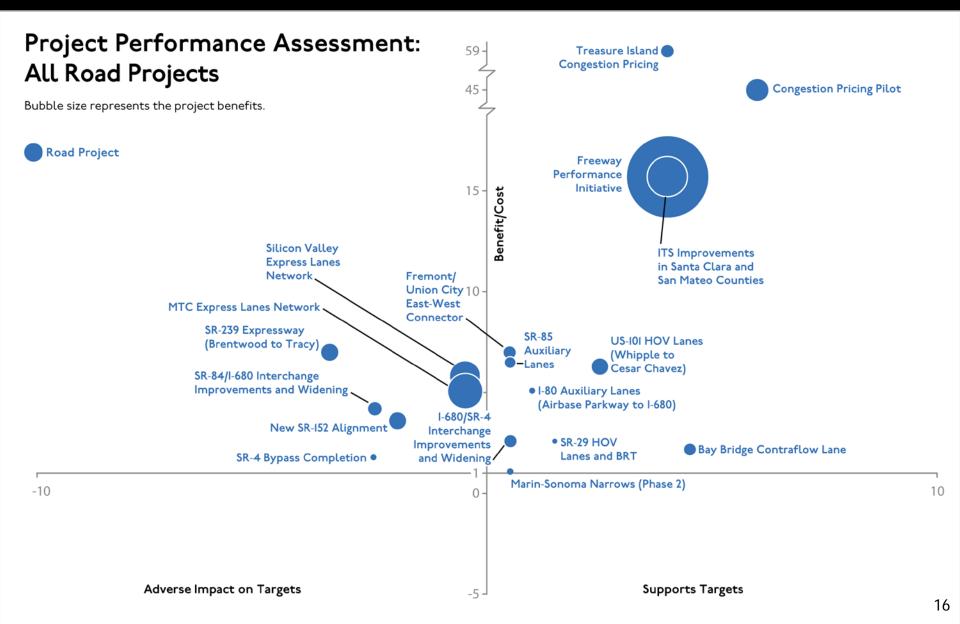


#### BENEFIT-COST ASSESSMENT

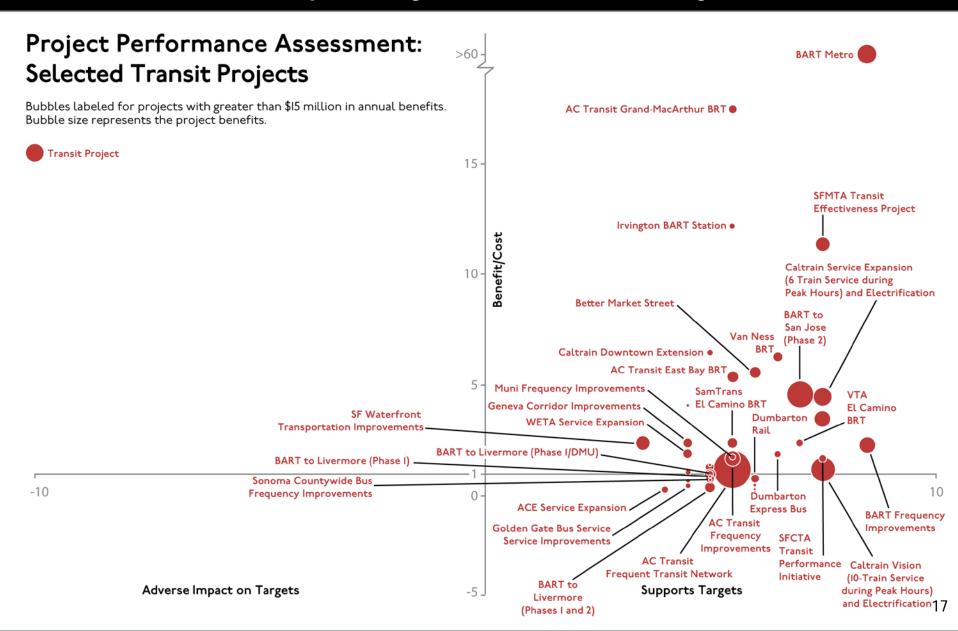
Compare benefits & costs

Analyzed most significant projects (approximately 100 in total)

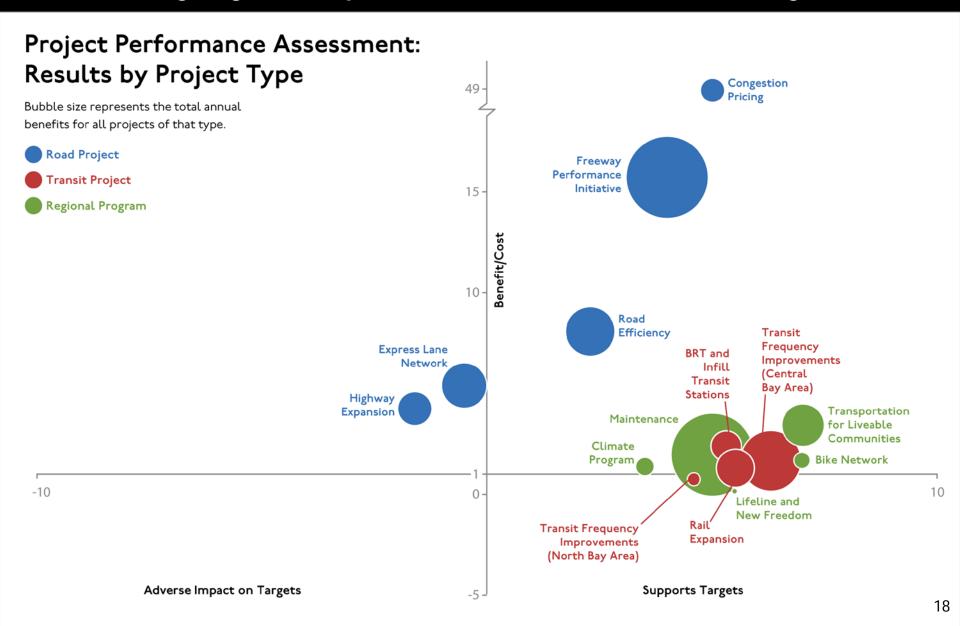
### Individual project evaluation allows for greater transparency and accountability.



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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

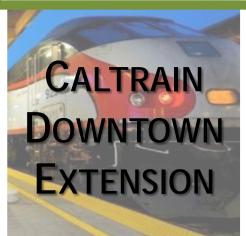






SAMPLE
MODERATEPERFORMING
PROJECTS

"NOTHING TO SEE HERE, MOVE ALONG"







Sample Low-Performing Projects

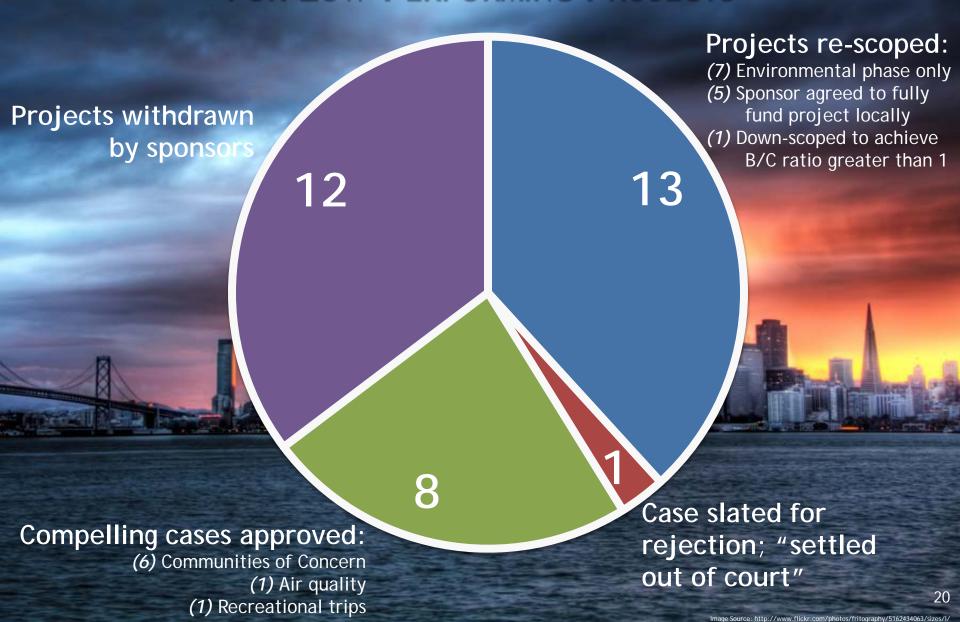
REQUIRED COMPELLING CASE FOR INCLUSION IN PLAN





FREEWAY
WIDENING
(US-101 & SR-239)

### IMPLICATIONS OF COMPELLING CASE REQUIREMENT FOR LOW-PERFORMING PROJECTS



### 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.

