

ITS Work at MPOs

Hillsborough MPO Tampa, Florida

planhillsborough.org

The Role of MPOs

- ☐ Forum for agencies to coordinate on ITS initiatives
- ☐ Provide info to decision-makers on the impact ITS investments can have on the transportation system
- ☐ Identify unmet needs for ITS and help decision-makers set priorities among all multimodal needs
- ☐ Track area-wide performance, and benefits of ITS investments, over time



MPO as a forum: What should be on the agenda?



Planners need:

- Familiarity with elements of ITS
 (sensors, controllers, communication
 systems...) & their limitations and
 benefits
- Understanding of how ITS deployments can help achieve community multimodal goals
- Awareness of trends as technology continues to rapidly evolve



2040
Transportation
Plan =
Many Kinds of
Investments







Reduce
Crashes &
Vulnerability



Manage Traffic for Drivers & Shippers



Real Choices
When Not
Driving



Grow
Economic
Activity
Centers



What can we get if we invest in Managing Traffic for Drivers & Shippers

Level 1 – CURRENT SPENDING

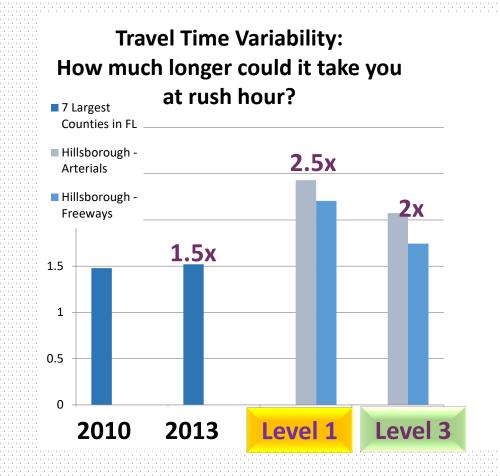
- ☐ Peak-hour travel time is how much less reliable than today?
- ☐ Hours of truck delay

Level 2 – ATMS FULLY FUNDED

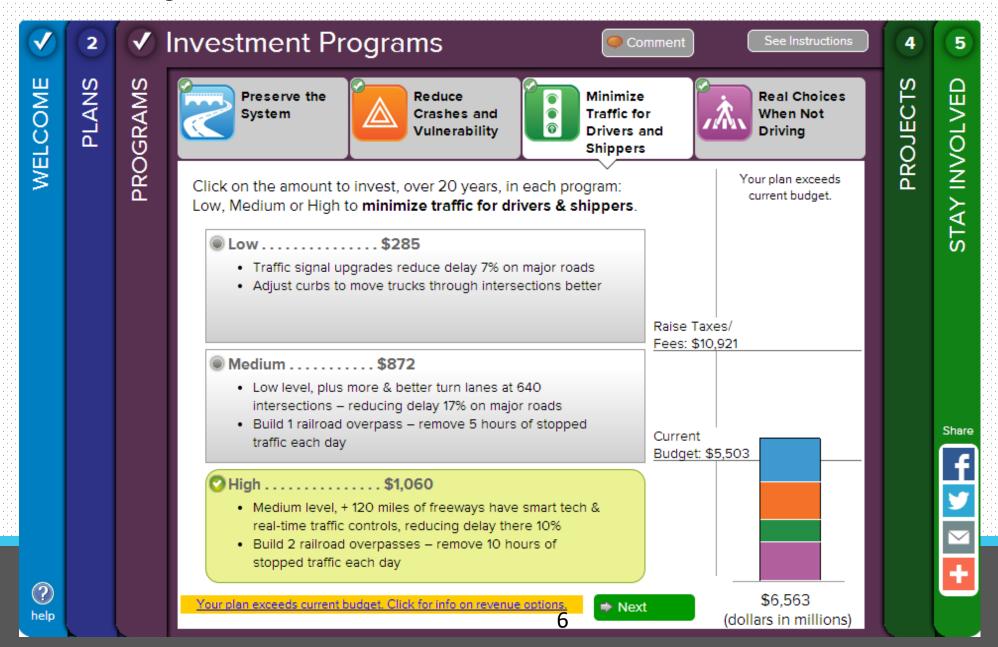
- ☐ Travel time % more reliable on major roads
- ☐ Reduced truck "hot spots" by %

Level 3 – FREEWAY ATMS FUNDED TOO

☐ Level 2, plus increased reliability on freeways



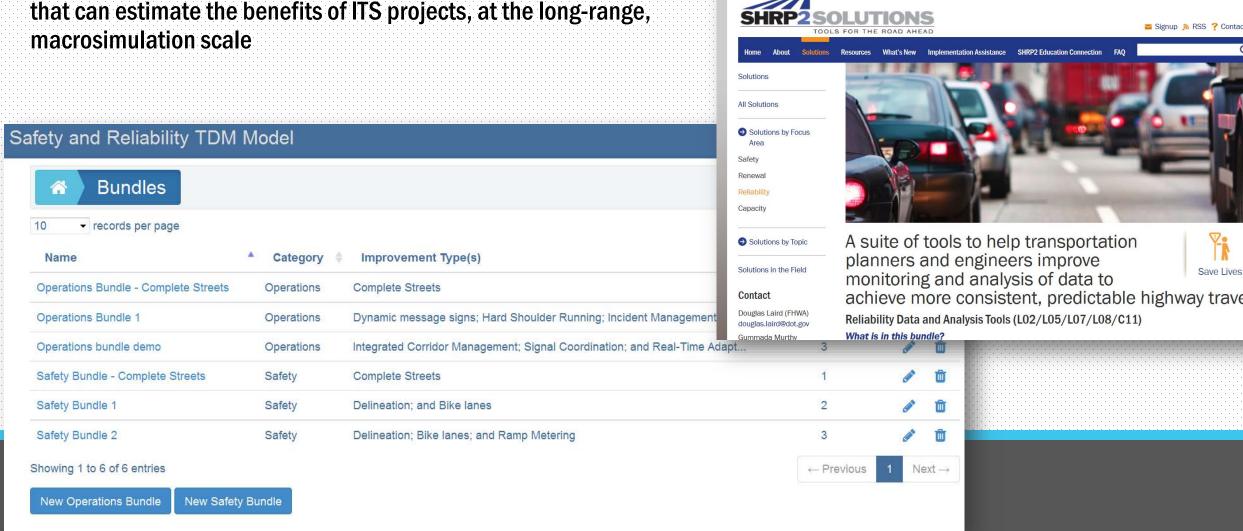




Imagine 2040 . Org Public Engage -ment website

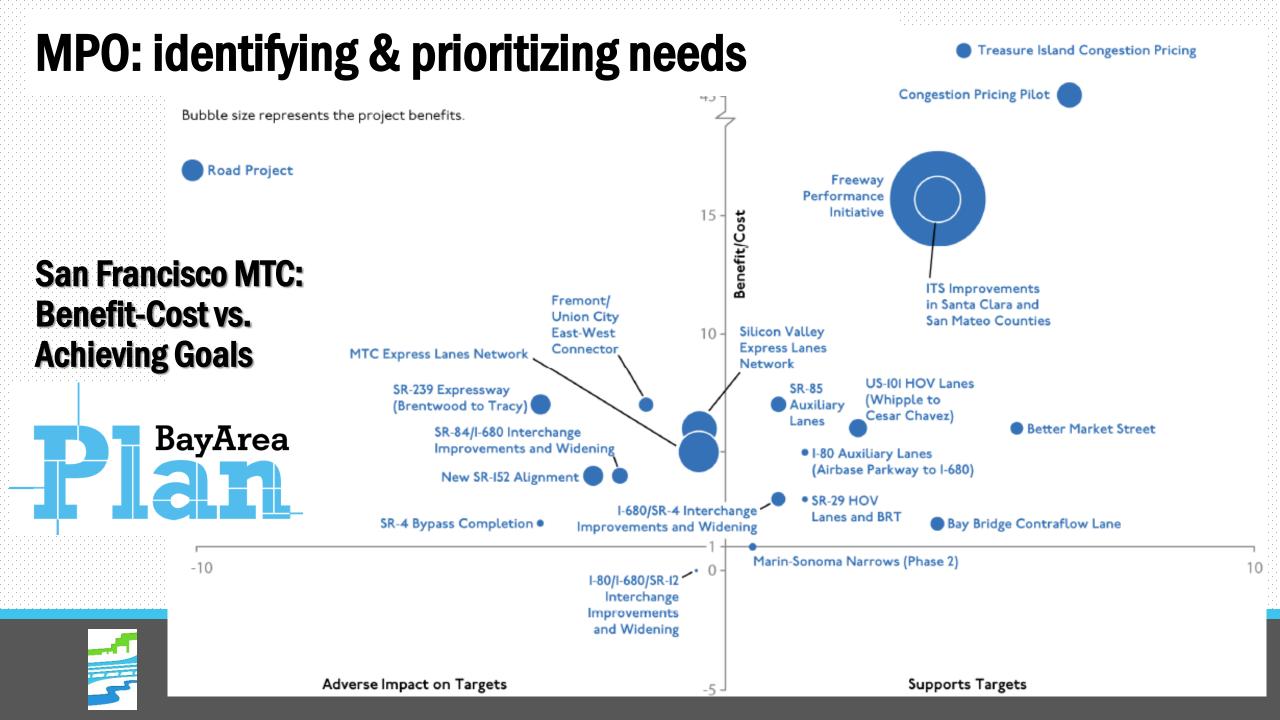
To tell the story, planners need:

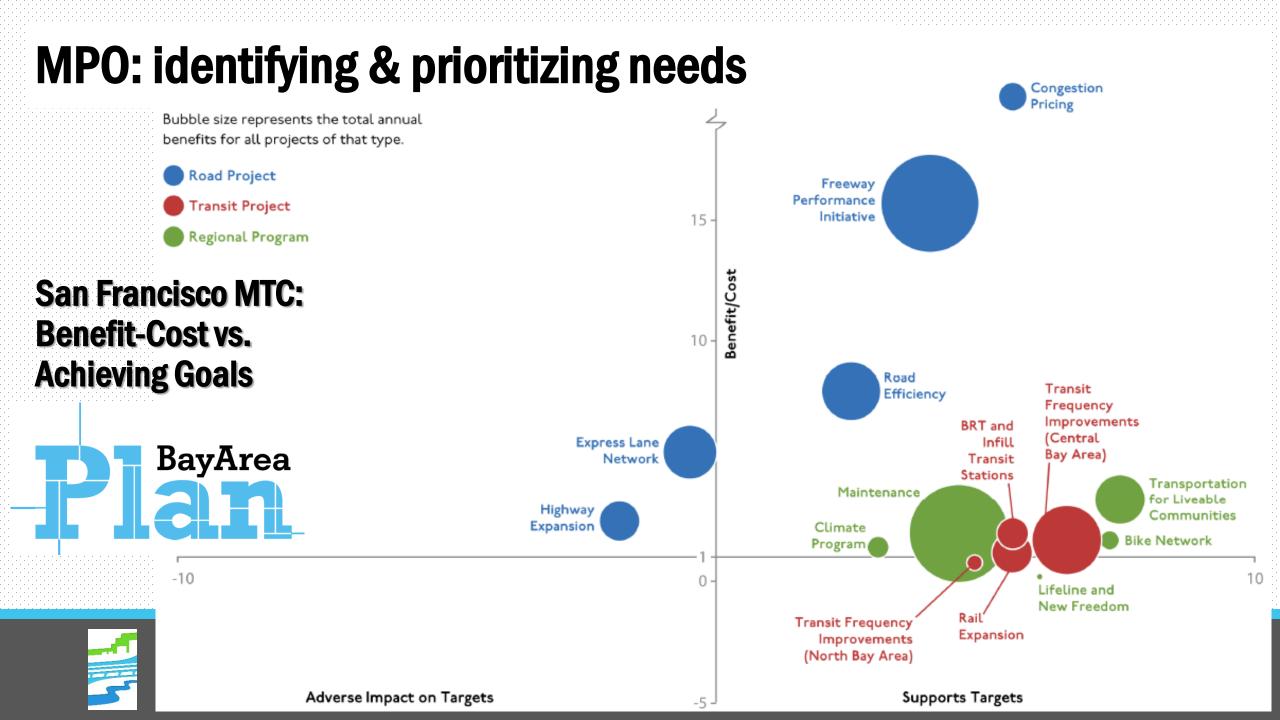
 Ability to use new travel demand modeling tools/ post-processors that can estimate the benefits of ITS projects, at the long-range, macrosimulation scale



U.S. Department of Transportation
Federal Highway Administration

About Programs Resources Briefing Room Contact





MPO: identifying & prioritizing needs

San Francisco MTC: Summary Observations

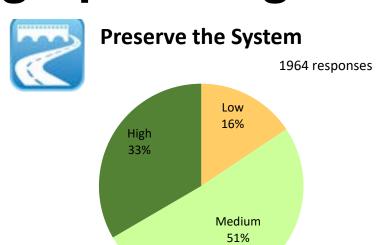


- 1. The best performers are pricing projects and transit and road efficiency projects in the central Bay Area.
- 2. Transit expansion projects achieve the highest target ratings but many have B/C less than 1.
 - Results are mixed for Resolution No. 3434 projects.
 - Many projects have high operating costs.
 - Many have large benefits but also have very large costs.
- 3. Roadway expansion projects are middle of the pack for B/C but rate lowest for targets.



MPO: identifying & prioritizing needs

Planners should have a general understanding of where ITS strategies fall on various scales, such as cost per mile, cost/benefit ratio, environmental and community impact, public opinion, in order to help their communities choose the right tool from the multimodal transportation toolbox.



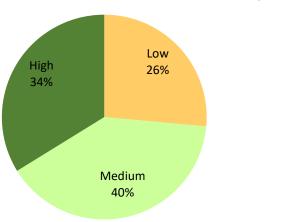
Public engagement survey says the right level of investment is





Min. Traffic for Drivers & Shippers

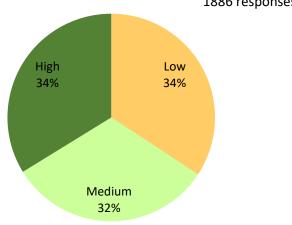
1920 responses





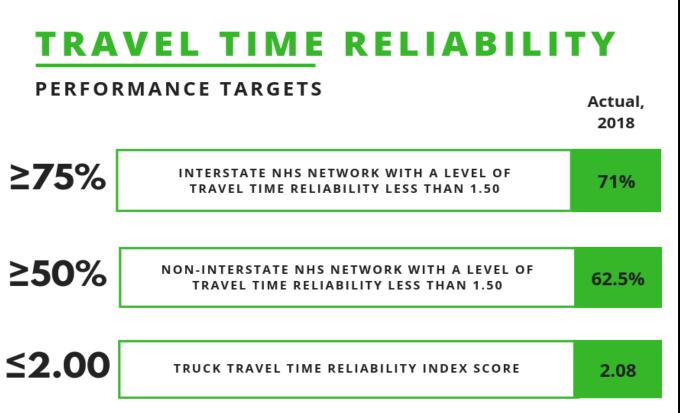
Real Choices When Not Driving

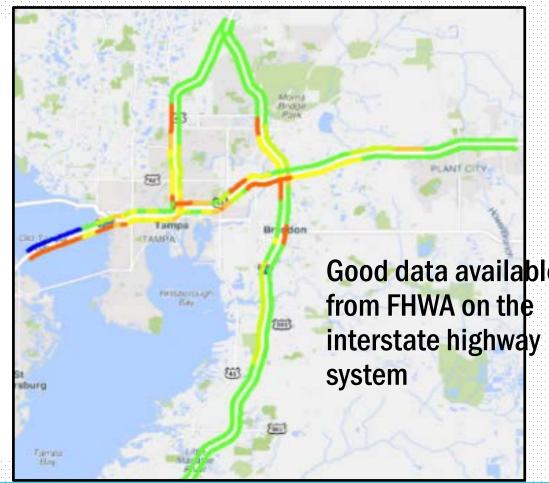
1886 responses





MPO performance targets: monitoring progress





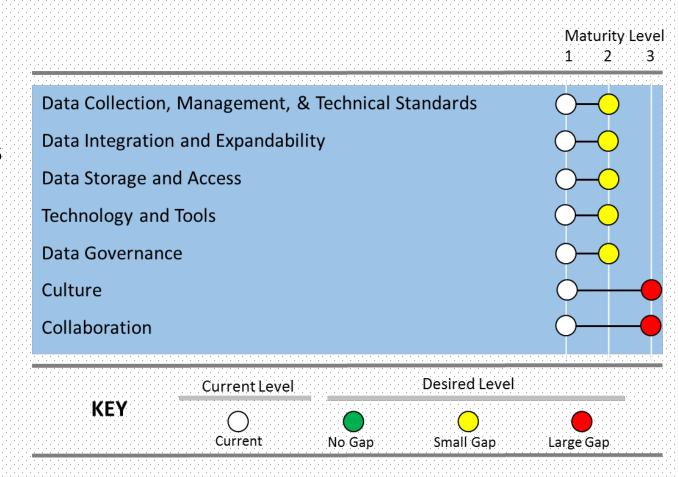


MPO performance targets: monitoring progress

Segment-level data on average speed by time of day is available on most roads of interest for a price

What about sharing data among TMCs? Requires data business planning:

- Inventory of datasets and formats
- Interlocal agreements for data-sharing
- Software to manage enormous data sets (beyond Excel's capacity)
- Programming of analysis functions





MPO performance targets: monitoring progress

Planners need:

- Strong data management and statistical analysis skills
- Capacity to interpret data and create data visualizations that convey key messages



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Transportation Agencies turn to INRIX to get more out of NPMRDS

August 14, 2018 / By Erin Power



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RELEVANT PO

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INRIX supplies traffic data to the United States Federal Highway Administration (FHWA), and state and regional agencies to assess travel reliability, congestion and emissions. National Performance Management Research Data Set (NPMRDS) is the default dataset for calculating the new US Federal 'PM3' system and freight performance measures. NPMRDS, delivered in partnership with University of Maryland (UMD) at FHWA expense, allows agencies



Thank you!

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