



TRB - 5th International Transportation Systems Performance Measurement and Data Conference

Denver, Colorado, June 1, 2015



Drivers of Performance Based Activities



- Regional Transportation Plans
- Sustainable Communities Strategies (SB 375)



- California Blueprint (SB 391)
- California Transportation Plan 2040
- Regional Transportation Plan (RTP) Guidelines



- MAP-21 performance measures rulemaking process
- Initial steps toward target-setting coordination



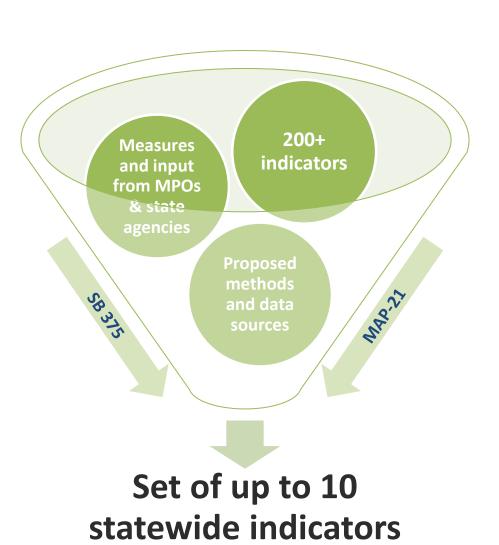
State-Level Indicators: Purpose and Framework

- Purpose: to identify a common set of standardized transportation indicators for California MPOs and state agencies (effort led by SANDAG and funded by California Strategic Growth Council)
- Address issues of importance across the state, going beyond the requirements in MAP-21 and dealing with key sustainability issues
- Focus on observed indicators (rather than modeled measures)
- Rely upon consistent statewide data sources (when available) and identify clear methodologies for each indicator
- Potential use of recommended measures to inform guidelines for STIP, California Regional Progress Report, etc.



State-Level Indicators: Selection Process

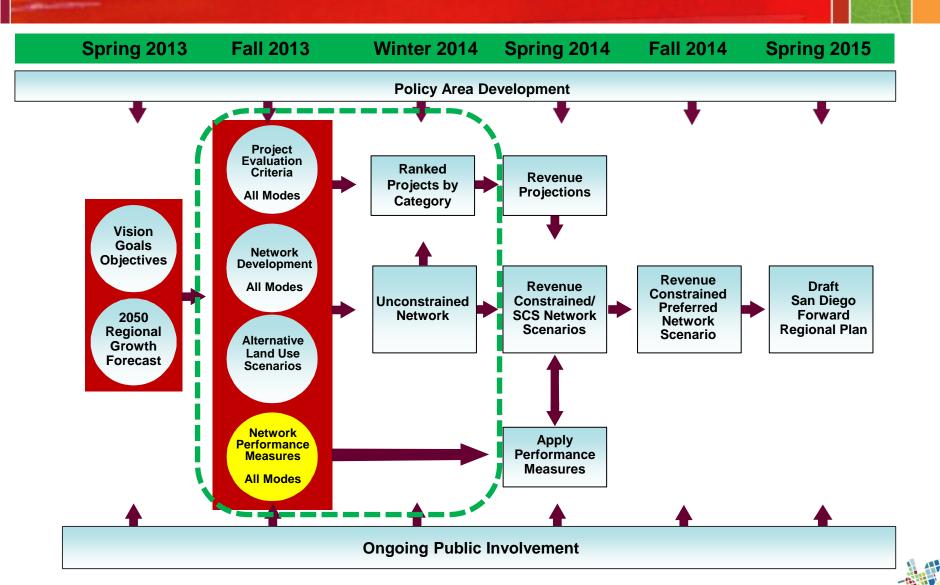
- Total and congested VMT per capita
- Commute mode share
- State of good repair
- Highway buffer index
- Fatalities/ser ious injuries per capita and per VMT



- Transit accessibility
- Travel time to jobs
- Change in agricultural land
- emissions per capita



SANDAG - RTP Process and Timeline



Network Performance Measures

- Used in past regional transportation plans
 - Evaluate multimodal transportation networks
 - Assist the Board in selecting the transportation network for the draft RTP
- Coordinating with USDOT on MAP-21 performance measures





Regional Plan Vision and Goals

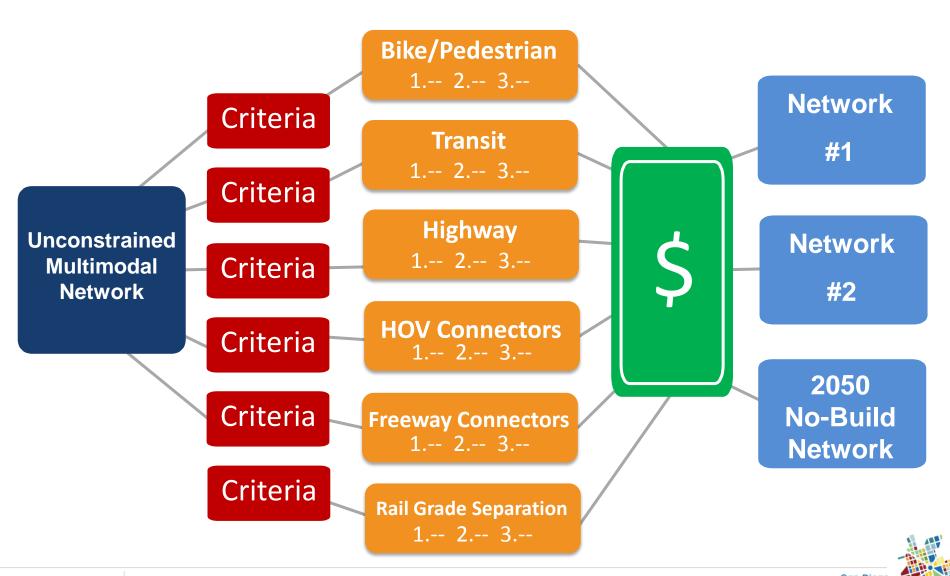


To provide innovative mobility choices and planning to support a sustainable and healthy region, a vibrant economy, and an outstanding quality of life for all.



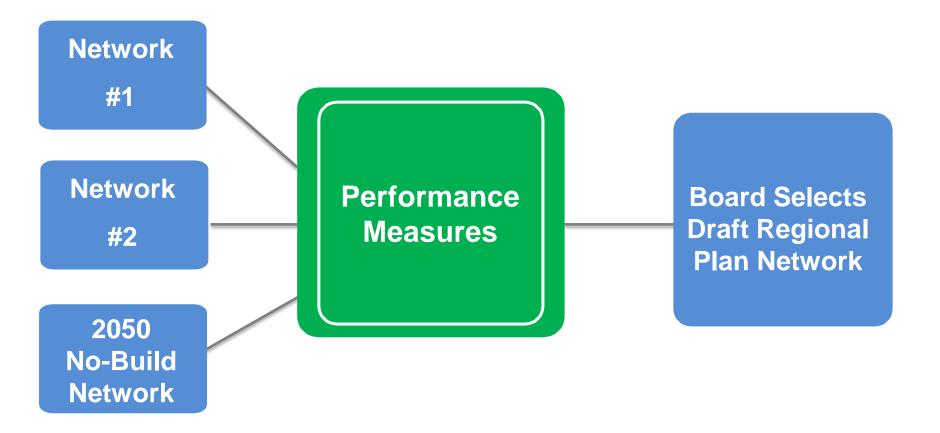


Scenario Development Based on Revenue Constraints





Network Selection Based on Performance Measures







Draft Performance Measures

- Support Regional Plan goals and policy objectives
- Fewer performance measures
- Key questions
- Simplified format





Innovative Mobility and Planning

1. Are travel times reduced?

- Average peak-period travel time to work
- Daily vehicle delay per capita

2. Are more people walking, biking, using transit, and sharing rides?

Change in walk, bike, transit, and carpool mode share

3. Is the transportation system safer?

- Annual projected number of vehicle injury/fatal collisions per vehicle mile traveled
- Annual projected number of bicycle/pedestrian injury/fatal collisions per mile traveled





Vibrant Economy

4. Do the transportation investments help to improve the regional economy?

- Benefit/cost ratio of transportation investments
- Average truck/commercial vehicle travel times to and around regional gateways and distribution hubs

5. Are the relative costs of transportation changing similarly for all communities?

- Change in percent of income consumed by transportation costs
- 6. Are connections to neighboring counties, tribal lands, Mexico, and military bases/installations improved?
 - Average travel times to/from tribal lands
 - Average travel times to/from Mexico
 - Average travel times to/from neighboring counties
 - Average travel times to/from military bases/installations





Healthy Environment and Communities

7. Does the transportation network support smart growth?

- Percentage of population/employment within 0.5 mile of high frequency transit stop
- Percentage of population/employment within 0.5 mile of a transit stop
- Percentage of population/employment within 0.25 mile of a bike facility
- Average travel distance to work
- Total time engaged in transportation-related physical activity per capita
- Percent of population engaging in more than 20 minutes
 of daily transportation-related physical activity





Healthy Environment and Communities

8. Is access to jobs and key destinations improving for all communities?

- Percent of population within 30 minutes of jobs and higher education
- Percent of population within 15 minutes of goods and services

9. Is the air getting cleaner?

On-road smog-forming pollutants (pounds/day)
 per capita

10. Are GHG emissions reduced?

On-road CO2 emissions (pounds/day) per capita and regionwide





Our CBO Partner Network

- The Community-Based Organization (CBO) Partner Network was created to help ensure that all communities were meaningfully involved in the development of San Diego Forward
 - Consisted of CBO's in vulnerable areas around the region
 - Each CBO Partner developed an outreach strategy catered to their community
 - Provided an ongoing forum for discussion







Disadvantaged Populations

- Minorities
 - Any community of non-white minorities
- Low-income
 - Income level 200% of the Federal Poverty Rate
- Seniors
 - Age 75 or older







Social Equity Analysis: No Disparate Impact/No Disproportionate Effect

Performance Measure	Low Income	Minority	Seniors
Average Peak Period Travel to Work - all modes	✓	✓	✓
Change in percent of income consumed by out-of-pocket transportation costs	✓	✓	✓
Percentage of population within 0.5 miles of HIGH FREQUENCY transit stops	✓	✓	√
Percentage of population within 0.5 miles of transit stops	✓	✓	✓
Percentage of population within 0.25 miles of a bike facility	✓	✓	√
Percentage of population within 30 minutes of jobs/higher education (auto/transit)	✓	✓	√
Percentage of population within 15 minutes of goods/services (auto/transit):			
Access to Retail	✓	✓	✓
Access to Healthcare	✓	✓	✓
Access to Active Parks	✓	✓	✓
Access to Beaches	✓	✓	✓
Exposure to PM ₁₀	✓	✓	✓

√ = No Disparate Impact or Disproportionate Effect



Results of Social Equity Analysis

- High Frequency Transit:
 - For low-income populations, their access goes up from 47% to 61 in 2020 and from 49 % to 70 % in 2050 as compared to the No-Build Scenario
 - For minority populations, their access goes up from 44 % to 58 % in 2020 and from 44 % to 67 % in 2050 comparing the 2050 Preferred Revenue Constrained Scenario to the No-Build Scenario
- Access to Bike Facilities:
 - 58 % of low-income populations will have access to a bike facility within a quarter of a mile in 2020, increasing to 62 % in 2035 and 64 % in 2050
- Access to Healthcare:
 - The Preferred Revenue Constrained Scenario projects improved access for seniors from 68 % in 2020 to 71 % in 2050





Performance Measure Scorecard

Plan goals and policy objectives

- + Key questions
- + Graphics
- + Key statistics

= Informed Decisions









SDForward.com

