

Attachment A: Recommended Goals, Objectives and Metrics for Metro Cost Benefit Analysis

The framework below includes project evaluation criteria based on goals consistent with United States Department of Transportation (USDOT) and California Department of Transportation (Caltrans) guidance and models, and incorporates additional criteria aligned with Board adopted objectives and goals. These goals are operationalized into objectives and performance metrics used to evaluate projects. Weights below reflect the importance of the goals relative to each other and are subject to additional validation and sensitivity testing. Costs include capital costs, soft costs, operations and maintenance and state of good repair to the extent possible depending on level of project design available.

Goals (weight)	Objectives	Sources	Examples of Metrics
Mobility and Accessibility (40%)	Reliability, Reduction in Travel Delay, Connectivity to Regional Destinations, Access to Resources and Opportunities, Management of Congestion Growth <i>Equity (3%): Improved Access to Opportunities, Mobility Improvements for Historically Underserved Areas</i>	USDOT Guidance Caltrans Methodology Metro 2020 LRTP Metro Vision 2028 2023 MM Evaluation	Travel Time Savings, Reduced Travel Time Variability Person Throughput Mode shift Passenger Miles Traveled Vehicle Hours Traveled Increased Access to Activity Centers
Safety/Health (15%)	Minimize Exposure to Health/Safety Risks Increase Access to Health Opportunities <i>Equity (1%): Reductions in Exposure to Health/Safety Risks for Sensitive Populations, Improved Access to Health Opportunities</i>	SB374 Vision Zero 2020 LRTP Metro Vision 2028	Reduced # of injuries, reduced # of fatalities Reduced # of conflict points Reduction in exposure to noise Improved access to facilities protected from vehicular conflict Reduced travel time to health care facilities
Environmental Sustainability (15%)	Reductions in Greenhouse Gas (GHG) Emissions, Urban Heat Island Effects, Stormwater Runoff Impacts, Biological and Habitat Impact <i>Equity (1%): Reduction in Exposure to Environmental Negative Externalities, Improved Environmental Amenities, Reduction of Impacts to Sensitive Receptors</i>	USDOT Guidance Caltrans Methodology, SB374 2020 LRTP Metro Vision 2028 2023 MM Evaluation	Reduced GHG per capita Reduced EPA air quality conformity criteria pollutants Reduced stormwater runoff and improved water quality Use of green infrastructure, reflective surfaces
Operational Sustainability (15%)	Sustainable Operations and Service Provision System resiliency Long Term Fiscal Sustainability and System Productivity	USDOT Guidance 2020 LRTP 2023 MM Evaluation	Extended life of facility and equipment Operating costs avoided Sufficiency of O&M funding Security and personal safety program availability System redundancy for emergency recovery
Economic Impact (15%)	Economic Growth, Sales Tax Growth, Industry/Commerce Activities, Goods Movement Efficiency, Workforce Access, Visitors to Region <i>Equity (1%): Equitable distribution of economic benefits to different socio-economic groups</i>	2023 MM Evaluation	Economic Output (as a result of transportation investments) Jobs Created (by sector) Land Use and Development, Property Value Increases