

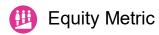
Initial Metrics for Evaluating Concepts





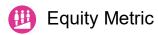
GOAL A Transform the Passenger Experience		
Objective	Metric	Description
	Rail travel time savings	Measures average potential time savings
A1: Improved service	Possible one-seat rides	Measures the reduction in transfers required for rail travel in the megaregion
	Crowding reduction	Measures the change in standee crowding
	Reliability	Measures change in reliability / punctuality of the rail services
	Flexibility to meet future growth	Measures additional capacity available to accommodate growth
A2: Network Performance	Expected recovery time from incidents	Measures ability to quickly resume services following an incident
	Ability to maintain infrastructure	Measures the ability to maintain existing and new infrastructure
	System redundancy during closure of Transbay Crossing and other events	Measure how much of the service is operable following an event

GOAL A Transform the Passenger Experience Metric Descripti		Transform the	
		Metric	Description
		Potential new riders	Measures the increase in total rail ridership and transbay ridership
がよい A3: Build ridership	Rail and transit mode share	Measures relative attractiveness of different modes by measuring changes to mode shares	
	Vehicle Miles Travelled (VMT) reduction	Reduction in traffic and other traffic related externalities	
		GOAL B Promote Equity and Livability	
	B1: Enhance Connectivity	Station access	Measures the first/last mile accessibility of stations
~°°		Jobs accessible ##	Measures changes in job accessibility by rail
		Access to important community resources	Measures changes in accessibility for non-work destinations (health, education, recreation, etc.)



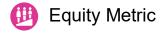
Objective		GOAL B Promote Equity and Livability	
		Metric	Description
0	B2: Improve safety,	Megaregional pollutant levels	Measures impact of reduced VMT on criteria air pollution
ر	health & air quality	Auto-involved crashes	Measures impact of reduced VMT on road safety
BES (T)	B3: Advance equity & community Stability and displacement	Advance equity and protect against community instability and displacement	Compilation of all the equity metrics (see 🕕)

GOAL C Support economic opportunity and global competitiveness Objective Metric Description			
		Metric	Description
	C1: Improve access to opportunity & employment	Jobs accessible to new service	Measures the increase in total rail ridership and transbay ridership
		Business access to potential employees	Measures relative attractiveness of different modes by measuring changes to mode shares
	D1: Increase climate change resilience	GOAL D Advance environmental stewardship and protection	
		Viability under different sea level rise inundation scenarios	Measures the first/last mile accessibility of stations
	D2: Reduce greenhouse gas emissions	Greenhouse gas (GHG) emissions	Measures changes in job accessibility by rail



Economic Case & Financial Case Metrics

	What is the economic benefit to the megaregion?		
Objective	Metric	Description	
Economic Case Metrics	Monetized user benefits	Monetized travel time benefits	
	Monetized external benefits	Monetized air pollution benefits, safety benefits, and greenhouse gas benefits	
	Cost effectiveness	Relative comparison of benefits and costs	i
Financial Case Metrics	What are the financial implications?		
	Capital costs	Cost to build	



Deliverability Case Risks

	How can the project be delivered and what are the key risks?	
Objective	Metric	Description
Deliverability Case Metrics	Engineering and construction risk	Measures potential risk associated with construction of the project
	Operations during construction risk	Measures potential risks associated with operations during construction
	Equitable land use – displacement risk	Assess the risk of indirect displacement around new or existing stations
	Equitable land use – land use policies	Asses the risk of not being able to develop transit-supportive land uses around a new or existing station
	Environmental risk	Identify major potential environmental concerns with project concepts