Initial Metrics
for Evaluating Concepts

Strategic Case Metrics

Objective	**GOAL A** Transform the Passenger Experience	
	Metric	**Description**
A1: Improved service	**Rail travel time savings**	Measures average potential time savings
	Possible one-seat rides	Measures the reduction in transfers required for rail travel in the megaregion
	Crowding reduction	Measures the change in standee crowding
A2: Network Performance	**Reliability**	Measures change in reliability / punctuality of the rail services
	Flexibility to meet future growth	Measures additional capacity available to accommodate growth
	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

Equity Metric

Strategic Case Metrics

Objective

GOAL A Transform the Passenger Experience	
Metric	**Description**
Potential new riders	Measures the increase in total rail ridership and transbay 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

A3:
Build ridership

GOAL B Promote Equity and Livability	
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.)

B1:
Enhance
Connectivity

Equity Metric

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Strategic Case Metrics

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

🖐 Equity Metric

Strategic Case Metrics

Objective

GOAL C — Support economic opportunity and global competitiveness	
Metric	**Description**
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

C1: Improve access to opportunity & employment

GOAL D — Advance environmental stewardship and protection	
Viability under different sea level rise inundation scenarios	Measures the first/last mile accessibility of stations
Greenhouse gas (GHG) emissions	Measures changes in job accessibility by rail

D1: Increase climate change resilience

D2: Reduce greenhouse gas emissions

Equity Metric

Economic Case & Financial Case Metrics

Objective

What is the economic benefit to the megaregion?	
Metric	**Description**
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

Economic Case Metrics

What are the financial implications?	
Capital costs	Cost to build

Financial Case Metrics

🔴 Equity Metric

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Deliverability Case Risks

Objective

Deliverability Case Metrics

How can the project be delivered and what are the key risks?	
Metric	**Description**
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

Equity Metric