Initial Metrics
for Evaluating Concepts

Strategic Case Metrics

Objective

GOAL A Transform the Passenger Experience	
Metric	**Description**

**A1:
Improved service**

Metric	Description
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**

Metric	Description
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	Measures 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	Measures reduction in traffic and other traffic related externalities
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.)

A3:
Build ridership

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

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Strategic Case Metrics

Objective

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

Objective	Metric	Description
C1: Improve access to opportunity & employment	**Jobs accessible to new service**	Measures jobs located near stations with new rail service
	Business access to potential employees	Measures changes in access by rail to the labor market for employers

GOAL D Advance environmental stewardship and protection	

Objective	Metric	Description
D1: Increase climate change resilience	**Viability under different sea level rise inundation scenarios**	Measures exposure of infrastructure to sea level rise
D2: Reduce greenhouse gas emissions	**Greenhouse gas (GHG) emissions**	Measures changes in GHG emissions from vehicles

Equity Metric

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Economic Case & Financial Case Metrics

Objective

What is the economic benefit to the megaregion?

Metric	Description
Monetized user benefits	Measures monetized travel time benefits
Monetized external benefits	Measures 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	Measures cost to build

Financial Case Metrics

Equity Metric

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	Assesses risk of indirect displacement around new or existing stations
Equitable land use – land use policies	Assesses risk of not being able to develop transit-supportive land uses around a new or existing station
Environmental risk	Identifies major potential environmental concerns with project concepts

Equity Metric