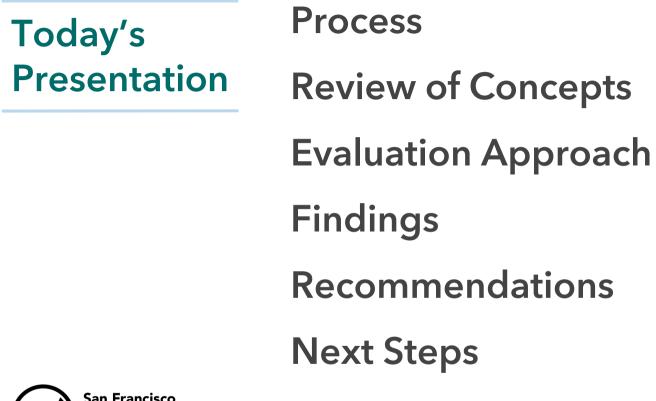
Great Highway Concepts Evaluation Final Report

District 4 Mobility Study



San Francisco County Transportation Authority Agenda Item 6 June 23, 2021





Process

San Francisco

Authority

County Transportation

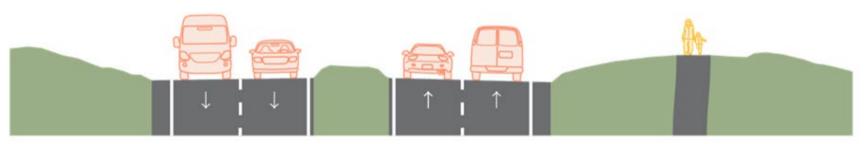
- Great Highway Concepts Evaluation conducted as part of the District 4 Mobility Study – focus is on the longterm future of the Great Highway
- SFMTA Board and Rec Park Commission had a joint meeting to discuss near term steps during economic reopening – may make a recommendation about next steps
- Board of Supervisors will make final decision about short and long-term future of the Great Highway

3

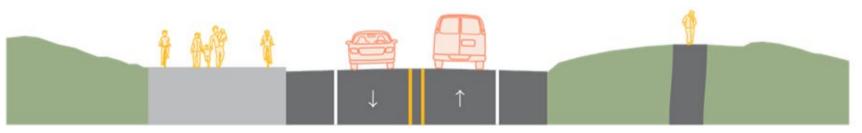
Review of Concepts



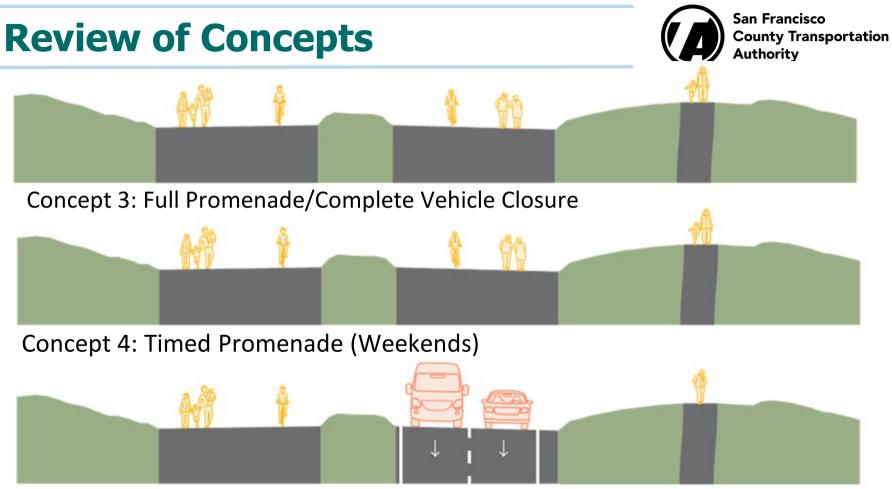
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Concept 1: Four-Lane Roadway



Concept 2: Promenade/Two-way Roadway



Concept 5: Promenade/One-way Roadway

Evaluation Approach

- Considered factors that align with City policies
 - Climate change /resiliency
 - Well-being and health
 - Transit first/sustainable mode choices
 - Vision Zero/safety
 - Economic Vitality/mobility
- Identified high-level concept costs
- Reviewed public support





Climate Change Resilience

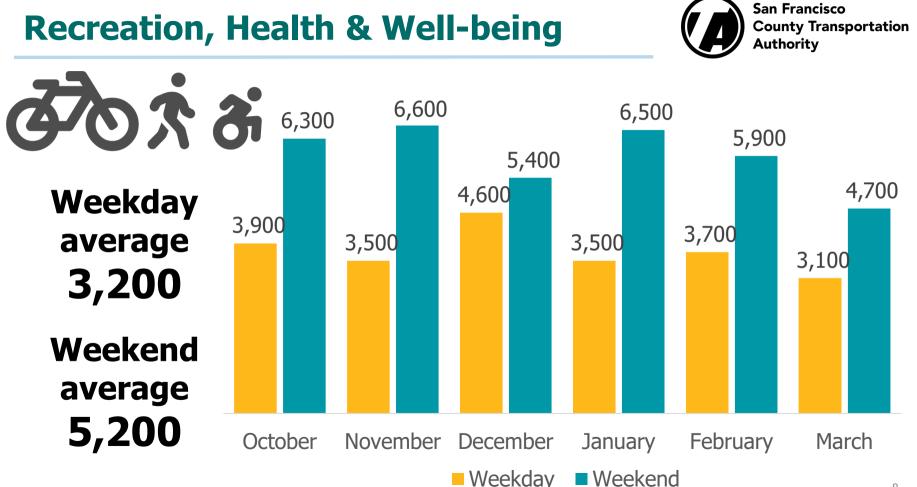


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7

Added Park Acreage

-	Concept 1: Four-lane Roadway		Concept 2: Promenade/ Two-Way Roadway Complete Vehicle Clo		-
0 acre	S		7 res		.7 res
	Conce Timed Pro 1 acres (pa	omenade 7	One-Way	Promenade/ Roadway 7	



Recreation, Health & Well-being



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Bicycle and Pedestrian Usage

Concept 1: Road			: Promenade/ ay Roadway	•	III Promenade/ ehicle Closure
Lo	W	Me	dium	Estimated 19,40	i gh 10 - 26,400 weekly itors
	Concept 4: Timed Promenade		Concept 5: Promenade/ One-Way Roadway		
	Medium Estimated 9,400 – 10,400 weekly visitors		Medium		

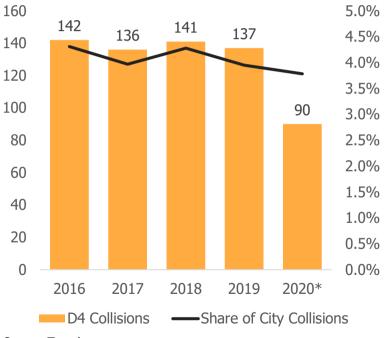
Vision Zero/Safety

- About 5-6 collisions per year on Upper Great Highway, Lower Great Highway & La Playa
 No change during pandemic
- About one third fewer collisions in D4 overall during the pandemic



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Total Traffic Collisions in D4



Vision Zero/Safety



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Safety Risks and Advantages by Concept Design

	Concept 1: Four-lane Roadway	Concept 2: Promenade/ Two-Way Roadway	Concept 3: Full Promenade/ Complete Vehicle Closure	Concept 4: Timed Promenade	Concept 5: Promenade/ One-Way Roadway
Potential Risks	Pedestrians cross 4 lanes. Bicyclists ride with vehicles	Risk of head on collisions. Some traffic on local streets.	Increased traffic/speed on local streets	Increased traffic/speed on local streets (weekends). Schedule confusion.	Some traffic on local streets.
Potential Advantages	Less traffic on local streets	Active modes separate from traffic Somewhat less traffic on local streets	Walking and biking separate from traffic	Walking and biking separate from traffic (weekends)	Active modes separate from traffic Somewhat less traffic on local streets

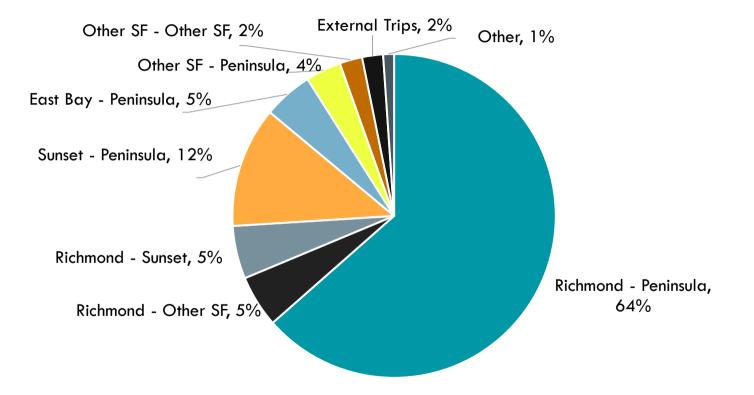
Safety – Emergency Response



- Great Highway is and will remain accessible to emergency response vehicles when needed
- Needs monitoring and design of a solution under full and partial promenade concepts

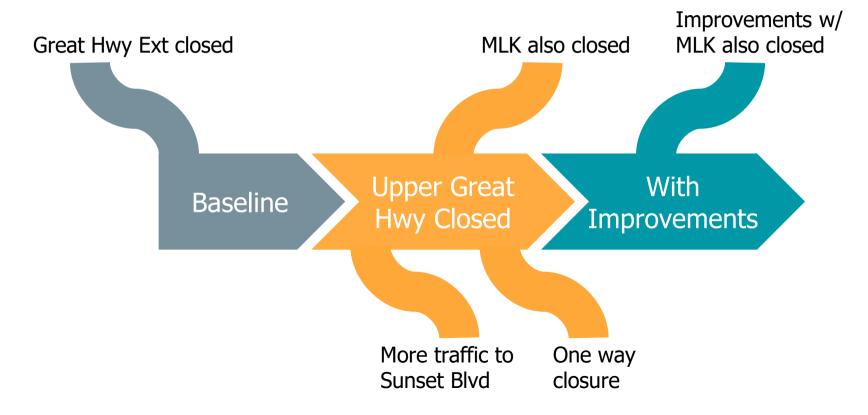
Vehicle Travel on the Great Highway





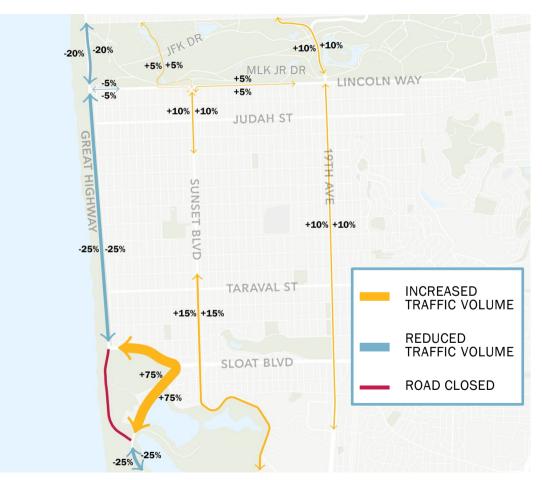
Mobility – Transportation Scenarios





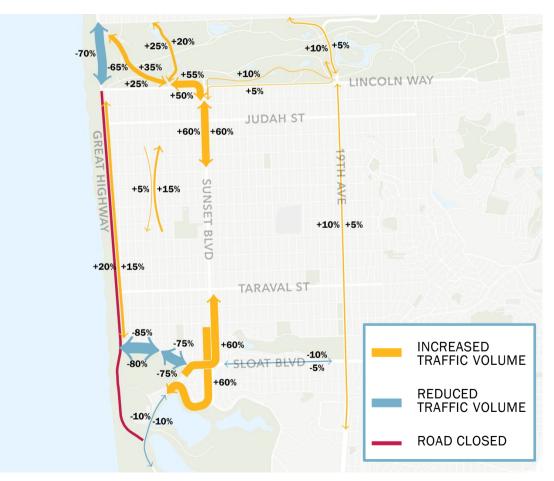
Baseline Change in Traffic Volumes Great Highway Extension closed





Upper Great Highway Closed Change in Traffic Volumes



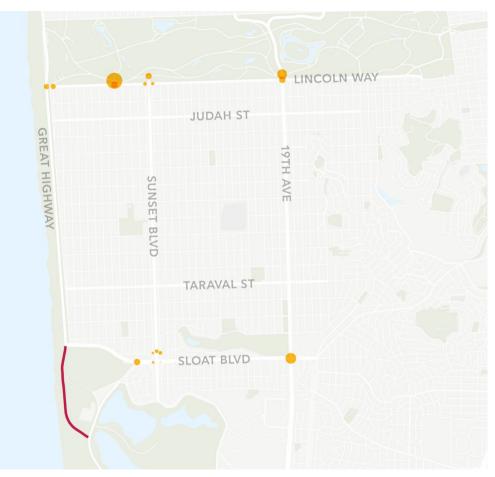




LESS DELAY (SECONDS)





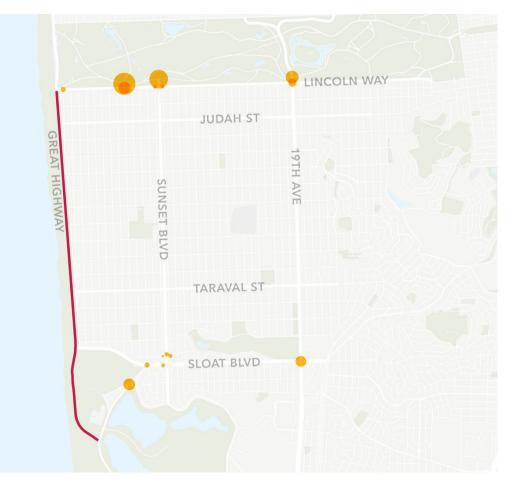


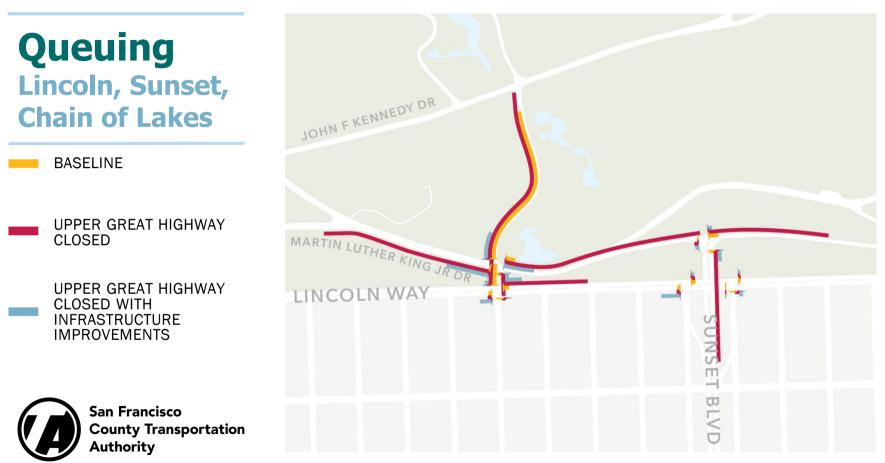
Intersection Delay Upper Great Highway closed

LESS DELAY (SECONDS)









Source: Transmodeler model, 2019

Queuing Lake Merced Blvd, Sloat Blvd

BASELINE

UPPER GREAT HIGHWAY CLOSED

UPPER GREAT HIGHWAY CLOSED WITH INFRASTRUCTURE IMPROVEMENTS





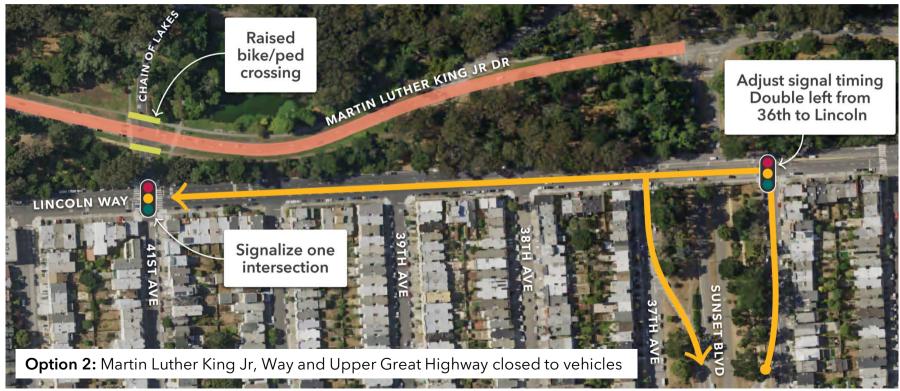
Improvements Ideas – Northern Zone 1





Improvements Ideas – Northern Zone





Improvements Ideas – Northern Zone

3





Improvements Ideas: Skyline/Lake Merced





- Consolidate Lake Merced/Skyline intersection
- Add left turn capacity from Lake Merced WB to Skyline SB
- All movements would fit in existing pavement
- Road closure could impact 18 46th Ave bus – needs further evaluation

Improvements Ideas: Sloat/Sunset





- 37th Ave one way southbound from Yorba to Sloat
- Double right from 37th Ave to Sloat Blvd
- Improves Sunset \rightarrow Sloat \rightarrow Skyline connection
- Balances traffic between Sloat Blvd and Lake Merced Blvd

Improvements **Outer Sunset Local Streets**

PARKING

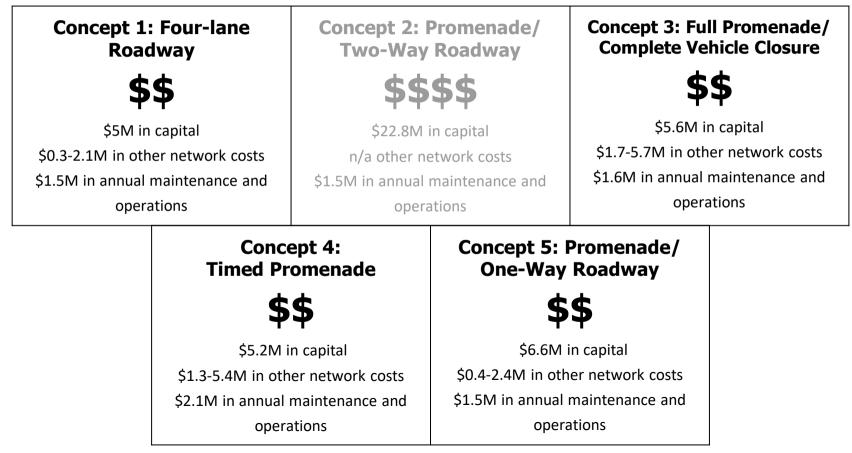




- To date, implemented \$500,000 in traffic calming
- 41st or a parallel street may receive further investment as part of neighborway network
- Assume up to another \$200,000 may be needed for additional traffic calming in the full closure

Upper Great Highway Costs/Risks





Other Network Improvements



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Considering impact areas that may need to be addressed

*denotes existing projects/initiatives	Concept 1: Four- lane Roadway	Concept 3: Full Promenade/ Complete Vehicle Closure	Concept 4: Timed Promenade	Concept 5: Promenade/ One-Way Roadway
Sunset/Sloat or Skyline/ Lake Merced		~	~	
Lincoln & Upper Great Highway		~	✓	~
Lincoln & 36 th Ave		✓		
Lincoln & 41 st Ave	✓	✓	~	~
Subtotal of improvement costs	\$0.3-2.1M	\$1.7-5.7M	\$1.3-5.4M	\$0.4-2.4M

Survey: Concept Preferences



	All	Sunset (94116/94122)	Outer Richmond (94121)	Other SF Residents
Concept 1: Four- Lane Roadway	21%	22%	52%	11%
Concept 2: Promenade/ Two- way Roadway	10%	7%	10%	11%
Concept 3: Full Promenade	53%	52%	22%	64%
Concept 4: Timed Promenade	13%	15%	13%	12%

Recommendations



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- Concept 3 Full Closure
 - Benefits: resiliency, recreation/open space, health, increased biking and walking
 - Needs: transit network and intersection improvements
 - Somewhat higher costs and project delivery risk for network improvements

• Concept 5 – Promenade + One Way Southbound

- Some of the benefits
- Requires some transit network and intersection improvements as full closure, slightly lower costs

Findings & Recommendations



- If there is a pilot, recommend monitoring of:
 - Safety: Collisions/conflicts and emergency response times
 - Traffic: incremental queueing at key intersections
 - Transit: travel time/conflicts on 29, 28, and 18 buses
 - Parking: availability of parking for local and visitor use
- Set thresholds for key metrics that would trigger re-evaluation/re-design

Great Highway Next Steps



- Evaluation Report findings and recommendations provided to Rec Park and SFMTA for further analysis and planning rec-greathighway@sfgov.org
- The Rec Park Commission and SFMTA Board may recommend next steps
- Any interim or permanent changes require Board of Supervisors approval

Thank you. Any Questions?

sfcta.org/d4mobility

