





Round 1 Analysis Findings

Policy Advisory Council September 2023



In partnership with



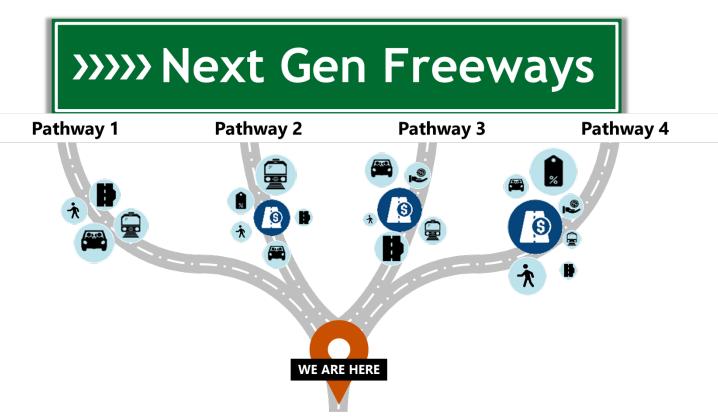
# Why explore pricing?

We are studying roadway pricing because...

- We need bold strategies to meet ambitious statemandated climate targets
- Congestion has roared back, even with many more people working-from-home
- Pricing has the potential to advance equity, if done right



## Pricing pathways must advance key regional goals.





What are "Pathways"?

Pricing Strategy + Complementary Strategies

### Near-term Plan Bay Area strategies are foundational.

PLAN BAY AREA 2050

All pathways assume implementation of these **near-term strategies through 2035** included in the adopted Plan Bay Area 2050:



Near-term transit transformation & capital expansion priorities



**Includes projects such as:** 

**BART Core Capacity** 

**Express Lanes Network** 

Caltrain Portal

Valley Link

BART to Silicon Valley Ph. 2

Robust **housing & economic** strategies (and associated land use outcomes)



Expanded **travel demand management** strategies (including telecommuting)



Federal, state, regional, and local actions to rapidly **electrify** the transportation system



**Reduced speed limits** 





Between 2030 and 2035, **additional "complementary" strategies** unique to each pathway are assumed to be implemented in a phased manner, including:



Additional **transit** investments



Additional **active transportation** investments



Additional **community-scale** investments



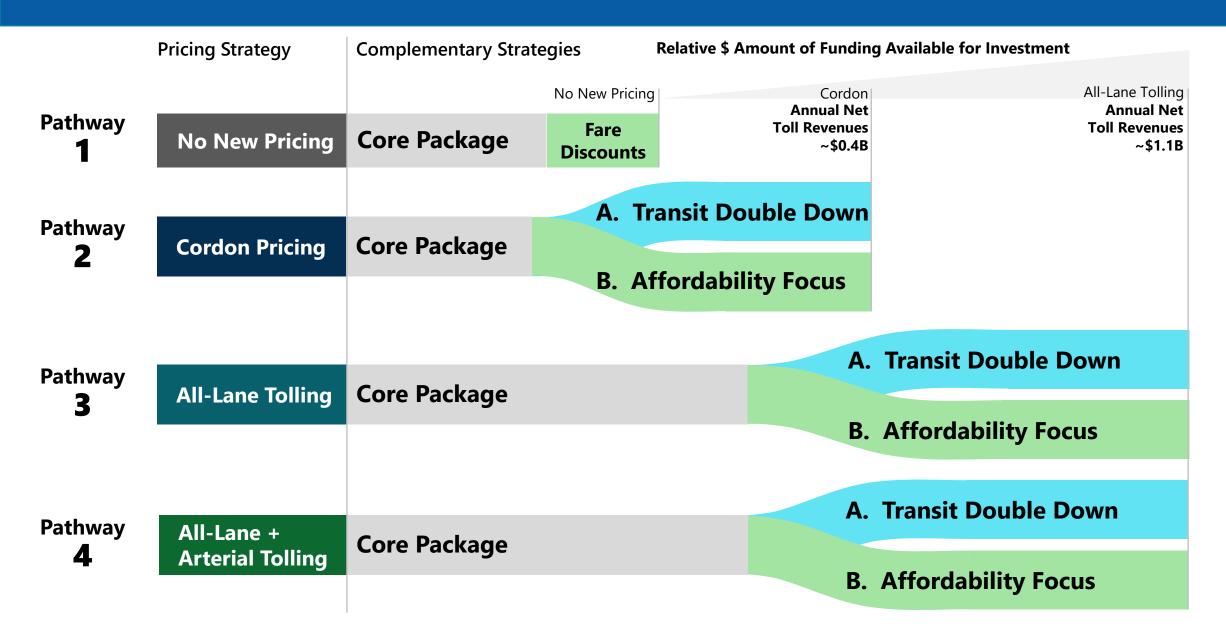
**Expanded discount programs** 



Additional **safety investments** 

2035

## Seven distinct pathways were co-created in Round 1.



## In particular, all-lane tolling pathways proved promising.

#### 2. Cordon Pricing

3. All-Lane Tolling

**Transit** 

4. All-Lane + **Arterial Tolling** 

#### What did we learn about the pricing strategies?

- While cordon pricing yielded positive outcomes at the local jurisdiction level, it has limited potential for benefits as a regional-scale pricing strategy.
- All-lane tolling had greater potential to advance regional goals yielding up to three percent reduction in regional VMT – but requires thoughtful mitigations to reduce diversion to local roads and increase mode shift.

## **Double Down**

**Affordability Focus** 

#### What did we learn about the complementary strategies?

- While new express bus lines initially seemed promising in Transit Double Down, reinvesting revenues in local transit services may yield greater mode shift.
- Toll discounts in Affordability Focus played a meaningful role in mitigating affordability concerns, whereas transit discounts proved a viable alternative to capital & operating investments to grow ridership.

#### What progress did all-lane tolling pathways make on goals?

(1/3)



# Freeway travel times and traffic congestion saw significant reductions from tolling.

Peak period travel times decreased by up to 24% on some of the region's busiest freeways for people and goods; diversion to major parallel local streets is an issue that can be mitigated by arterial tolling.

**Average change in freeway travel times** 

Pathway 3 -10%

Pathway 4 **-8%** 

Average change in major parallel arterial travel times

Pathway 3 +8%

Pathway 4 +0%



## Despite this, transit systems saw only limited ridership growth.

Transit alternatives became faster, but so did driving, resulting only in roughly 160K new boardings on a typical weekday; commute mode shift to non-auto modes was modest

Change in <u>non-auto</u> commute mode share

Pathways 3 & 4

+0.4% to +0.7%

### What progress did all-lane tolling pathways make on goals?

(2/3)

# Affordable

Pricing burdened only a small share of Bay Area households, especially with toll discounts.

Over half of households do not use tolled facilities on any given average weekday; i.e., the increase in cost burden from tolling is negligible for the median household.

Relatively few households would see a significant increase in toll expenditures, meaning that targeted cost burden relief could be expanded in Round 2 analysis to make further headway toward this goal.

Note: Modeled toll rates range from \$0 in low-congestion corridors to \$6 for a 20-mile segment in the busiest corridors.

Share of households by incremental annual toll expenditure (with 50% toll discounts for very low income)		
<u>Pathway 3B</u>	<u>&gt;\$300</u>	<u>&gt;\$1,000</u>
Very Low Income (Less than \$55K)	4%	<1%
Low Income (\$55K to \$110K)	<b>7</b> %	2%
Moderate Income (\$110K to \$190K)	18%	6%
High Income (More than \$190K)	22%	8%

## What progress did all-lane tolling pathways make on goals?

(3/3)



## Low-income communities would see much greater benefits than burdens.

Toll revenues fund meaningful investments that reverse health, safety, connectivity and aesthetic issues caused by freeways in adjacent communities.

Impacts to <u>very low-income</u> pop.	Pathways 3 & 4
Share of toll revenues incurred	4% to 8%
Share of reinvestments that benefit the group	32% to 38%



## Roadway safety is significantly better than today, but arterial diversion poses risks.

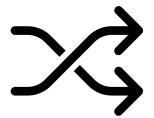
With safety improvements prioritized, estimated fatalities decrease substantially relative to current rates; however, arterial diversion dampens the efficacy of the pathways.

#### **Change in estimated <u>fatalities</u>**

Pathways 3 & 4

-29% to

# Four main challenges will be the focus for Round 2 analysis – seeking solutions!



#### **Limiting diversion to arterial & local streets:**

While tolling arterials was found to mitigate diversion, are there other strategies could mimic this effect while yielding meaningful reductions in traffic congestion & VMT/GHG?



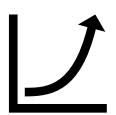
#### **Increasing mode shift:**

How can revenues be better reinvested between existing or new strategies to increase transit ridership & carpooling?



#### **Enhancing affordability:**

What strategies are best suited to improve affordability outcomes for high-frequency, low-to-middle-income drivers?



#### **Optimizing tolls with climate lens:**

Given ever-more-challenging climate goals, how can pricing pathways be expanded to make even greater headway than what is featured in Plan Bay Area 2050?

#### **Examples of ideas under consideration**

- Dual-priced lanes throughout freeway network (in place of all-lane tolling)
- Make arterials more transit-friendly / less attractive to drive
- Boost local transit frequencies
- Small hotspot improvements for local/express bus transit
- Increase investment in bus priority lanes
- Annual Clipper stipend
- Advance payments to very low-income population
- Higher toll discounts (e.g. 75%-90%) for very low-income population
- Transit fare caps
- Higher toll levels
- Expand all-lane tolling to all freeways
- Regional supplement over statewide Road User Charge







#### Next Steps:

MTC/ABAG Joint Planning/Admin Committee

**Community Engagement Round 2** 

Pathways Analysis Round 2

#### Future Updates to the Council:

**Engagement Learnings / Round 2 Analysis Inputs** 

Round 2 Analysis Outcomes / Next Steps

Thank You.

Oct 2023

Oct/Nov 2023

Winter 2024

Winter 2024

Spring 2024

#### **Questions?**

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