How the Pandemic has Reshaped How We Travel

Scenario Analysis for Planning

San Francisco County Transportation Authority

Outline

1. Planning & Forecasting

2. Data & Tools

3. Scenario Analysis

Planning & Forecasting

- What are **recent trends** and **present conditions**?

- What are our **goals for the future**?

- What might the future look like given **future trends**, **policy actions**, and **investments**?

Forecasting helps provide decision-makers and the public with information needed to make equitable, environmentally sound, cost-effective policy and investment choices
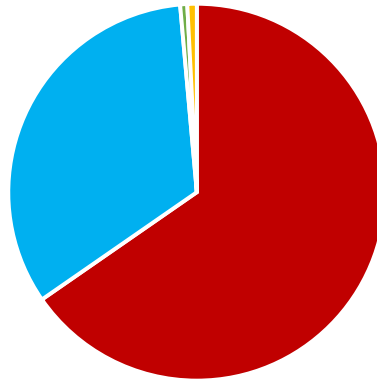
San Francisco Travel is Multimodal
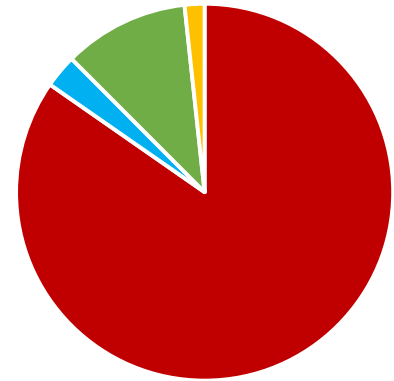

Intra-SF Mode Shares

To / From SF Mode Shares
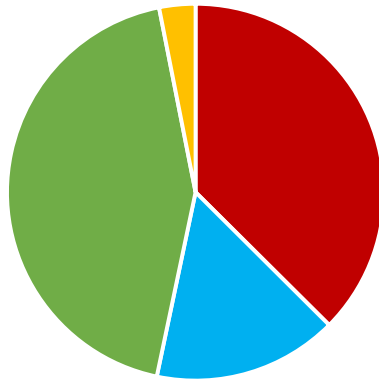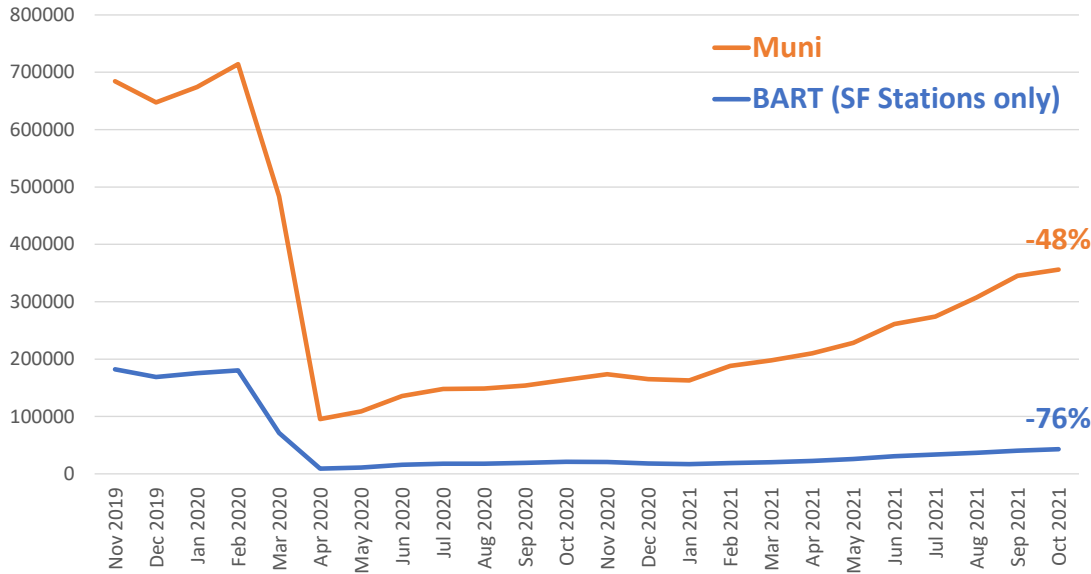
Non-SF Mode Shares

■ Drive ■ Transit ■ Walk ■ Bike

Transit Trends

San Francisco County Transportation Authority
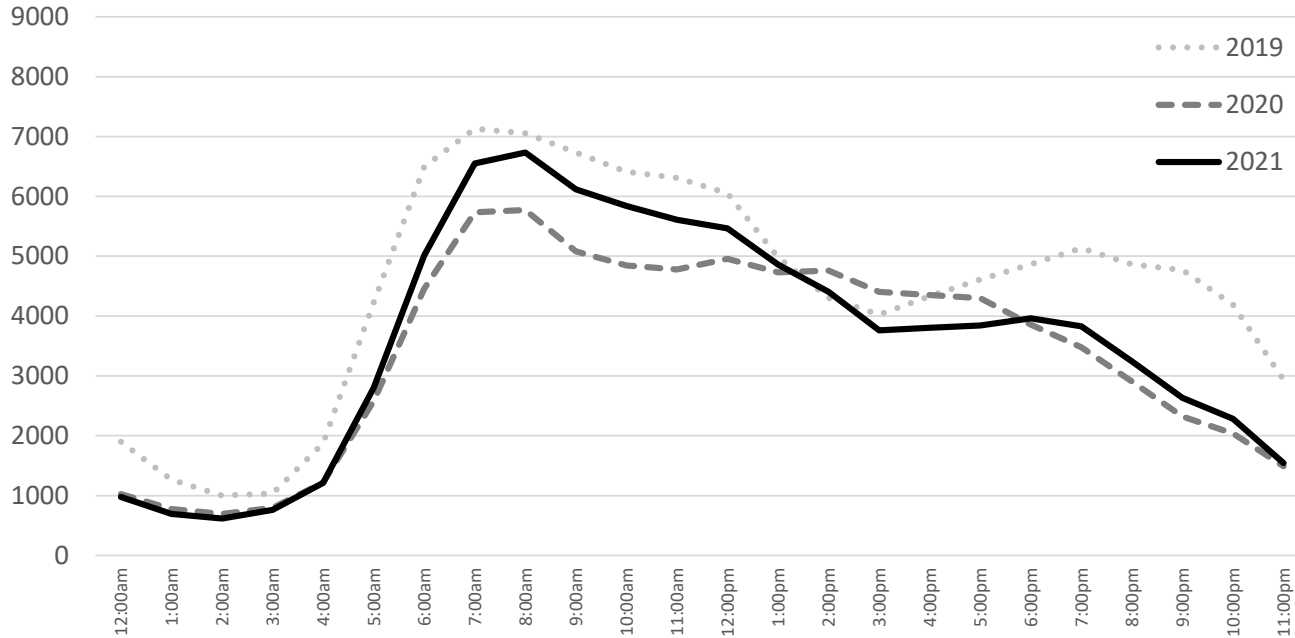
Average Weekday Transit Boardings by Month

— Muni

— BART (SF Stations only)

-48%

-76%

https://www.sfmta.com/reports/muni-ridership
https://www.bart.gov/about/reports/ridership

Low Income Transit Trips Muni

Low Income Transit Trips BART

transitriders.sfcta.org
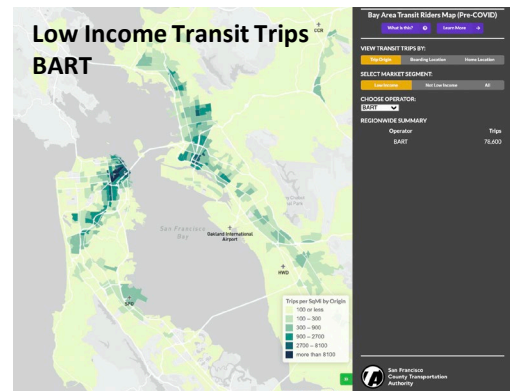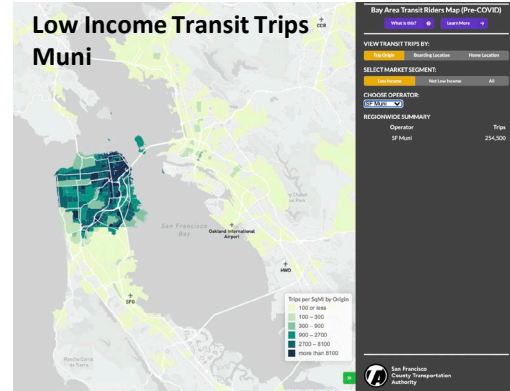
Traffic Trends

101 North of Split, Northbound

Caltrans PeMS

Roadway Congestion Trends

congestion.sfcta.org

covid-congestion.sfcta.org

Forecasting Models & Scenario Analysis

San Francisco County Transportation Authority

Predict Transportation System Performance

- Mode shares
- Congestion (e.g. VMT, delay)
- Ridership

Performance based on

- Capital Investments
- Service provision and operations
- Policies (e.g. pricing)
- Population & demographics
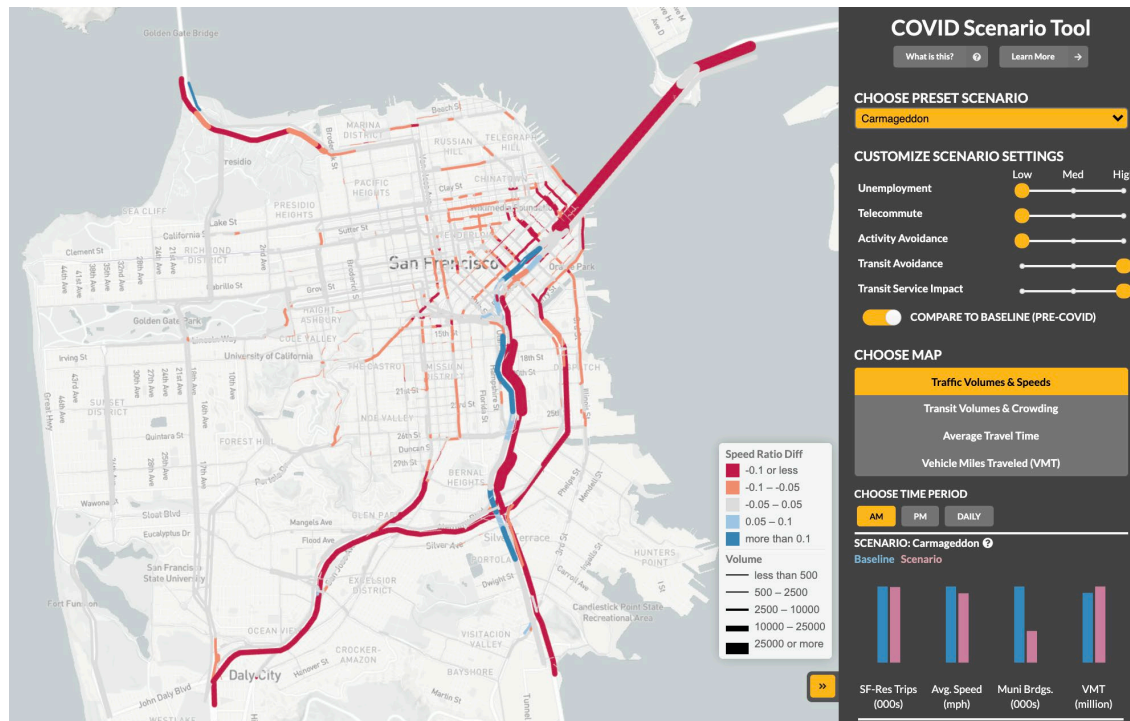- Employment
- Land Use

Scenario Analysis

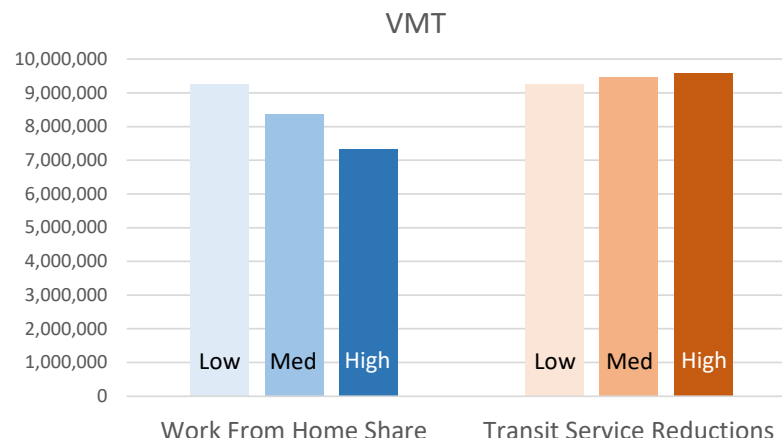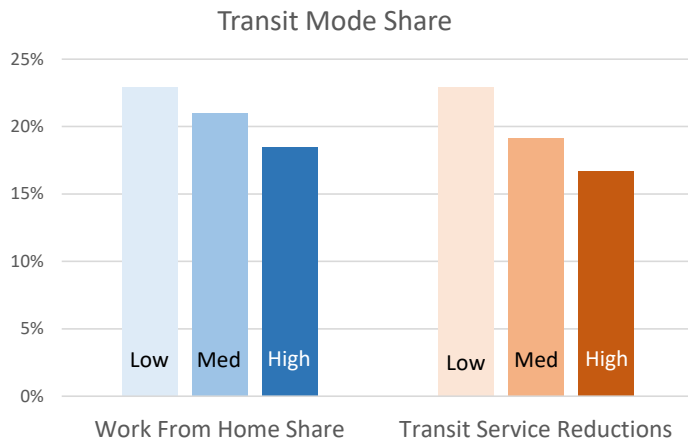SFCTA evaluated 250+ scenarios

Scenarios varied assumptions about

- Working from home

- Unemployment

- Activity participation ("shelter-in-place")

- Transit Service Provision

- Transit avoidance

Scenario Analysis:
What can policy and investments influence?

Transit Mode Share

VMT

Scenario Analysis:
Back to Business + Transit Reductions & Avoidance

	Unemployment	Work From Home	Activity Participation Avoidance	Transit Avoidance	Transit Service Impact	VMT	Muni	Transit Mode Share	Inbound Bridge Traffic
Pre-COVID	Low	Low	Low	Low	Low	9,265,467	693,009	23%	251,690
Recovery with Limited Transit	Low	Low	Low	High	High	10,448,760	223,082	8%	276,360
						13%	**-68%**	**-67%**	**10%**

Thank you.
Any Questions?

sfcta.org

**San Francisco
County Transportation
Authority**