# 2021 San Francisco Congestion Management Program



Agenda Item 8

## **CMP Purpose and Requirements**



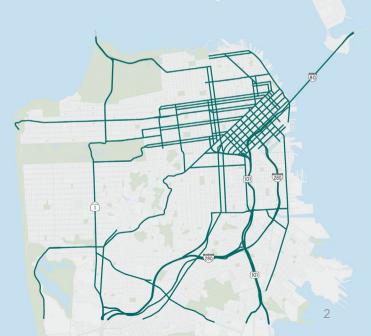
## **Purpose**

- Report performance measures for congestion management
- Describe congestion management strategies and efforts
- Approval of CMP maintains city's eligibility for state gas tax and other revenues

## Requirements

- Designated CMA updates every two years
- Auto LOS and multimodal performance measures
- Travel Demand Management (TDM) and Land us impact analysis
- Capital Improvement Program (CIP)

#### **CMP Monitoring Network 2021**



## **Performance Monitoring Outline**



## Congestion metrics

- Speeds (auto and transit/bus)
- Transit travel time reliability
- Auto travel time reliability (new)
- Auto-Transit speed ratio

## Other indicators

- Multimodal counts
- Bike and pedestrian collisions
- Transit ridership
- Transit coverage (new)
- Highway volumes (new)
- Mode Share (new)

## Key Findings - 2021 vs. 2019



	•	Auto	speeds
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Transit speeds

Auto travel time reliability

Bicycle and pedestrian collisions

Bicycle and pedestrian volumes

Vehicle volumes (local streets)

Transit travel time reliability

Transit ridership

increased 30% to 45%

increased 15% to 25%

increased 5% to 15%

decreased 35%

decreased 70%

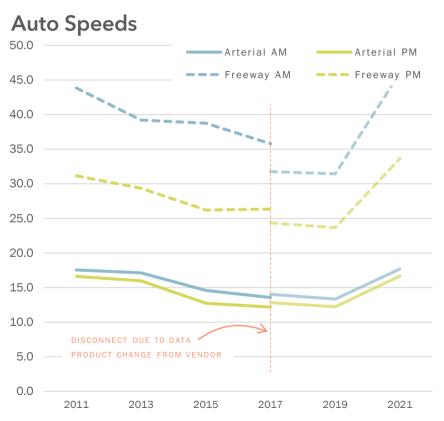
decreased 20%

increased 2% to 4%

decreased 65% to 85%

## Speed









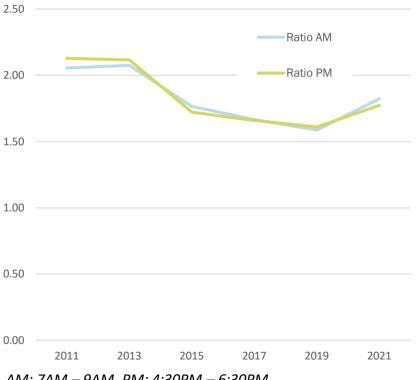
*AM: 7AM – 9AM, PM: 4:30PM – 6:30PM* 

## **Auto-Transit (Bus) Speed Ratio**



- Indicates how competitive transit is relative to auto
- A ratio of 2 implies that auto is twice as fast as transit

#### AUTO-TRANSIT SPEED RATIO

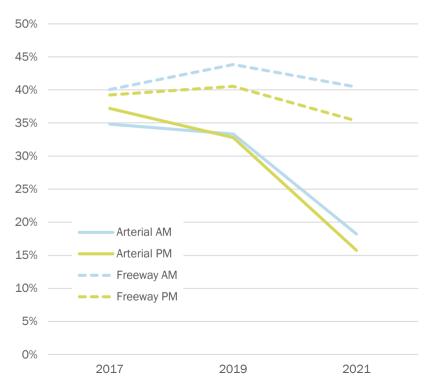


AM: 7AM – 9AM, PM: 4:30PM – 6:30PM

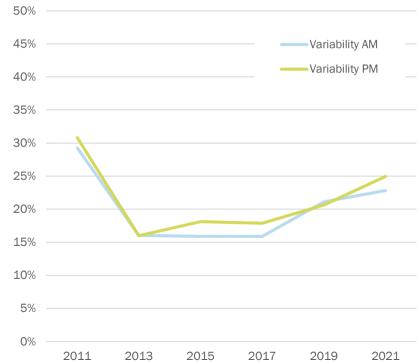
## Reliability



#### AUTO BUFFER TIME INDEX (BTI)

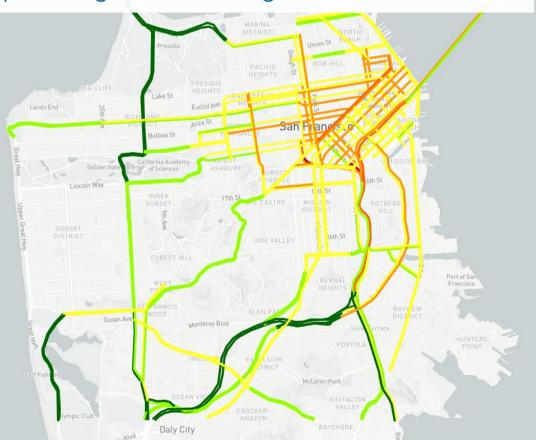


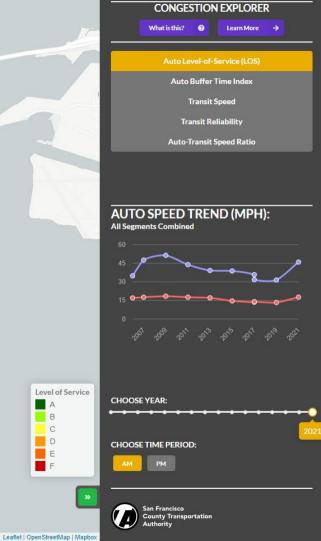
#### TRANSIT COEFFICIENT OF VARIATION



## **Long-Term Congestion Tracker**

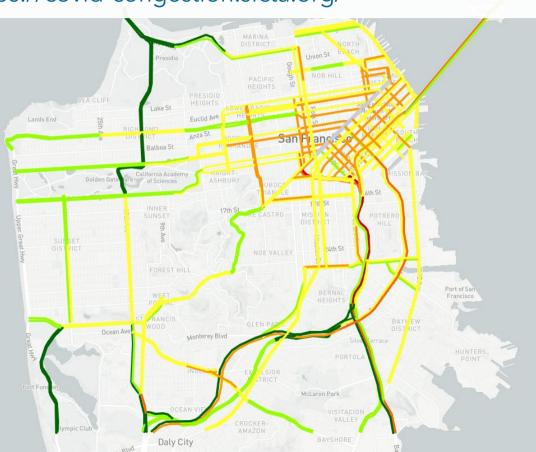
https://congestion.sfcta.org/

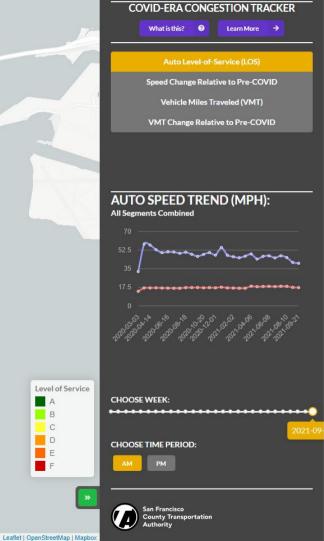




## **COVID-Era Congestion Tracker**

https://covid-congestion.sfcta.org/

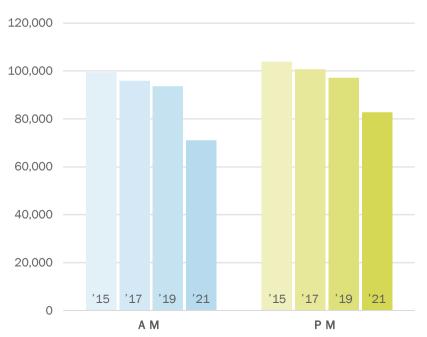




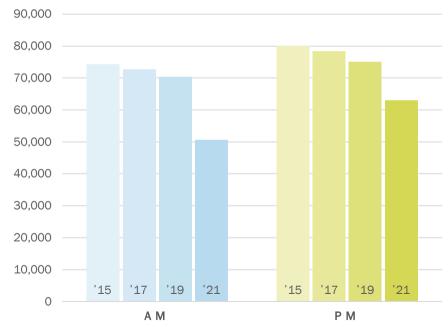
## **Vehicle Counts**



# ADT\* (MID-BLOCK) COUNTS (37 LOCATIONS)



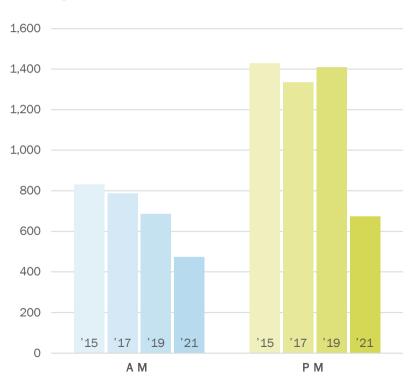
# INTERSECTION COUNTS (14 LOCATIONS)



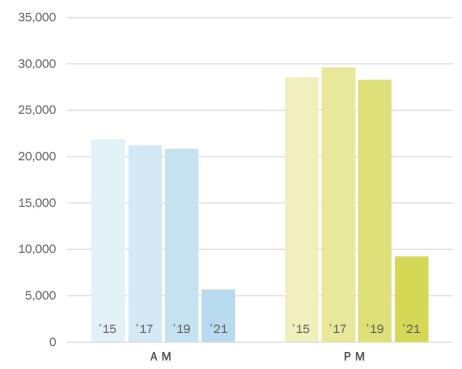
## **Bike-Ped Counts** (14 Intersections)



#### **BIKES**



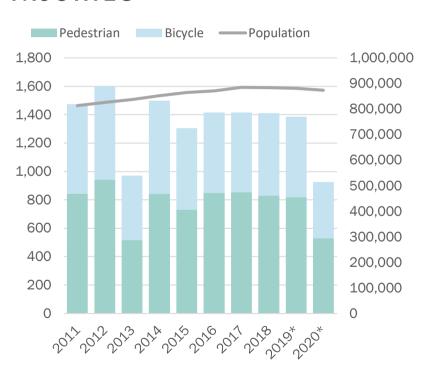
#### **PEDESTRIANS**



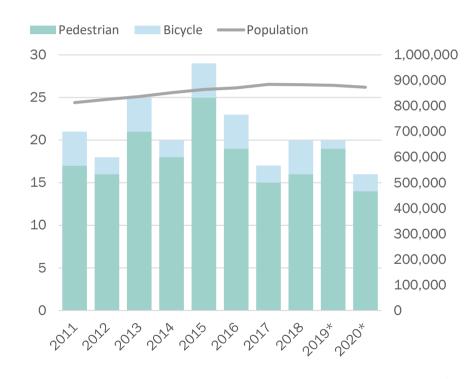
## **Collisions**



#### INJURIES



#### **FATALITIES**



## **Transit Ridership**



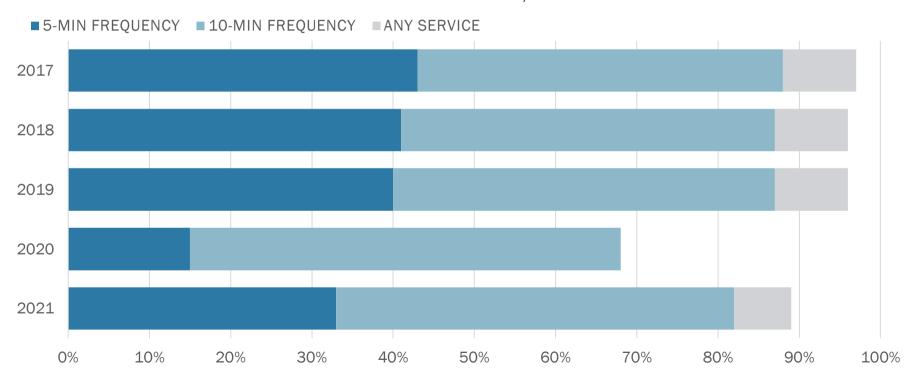
#### AVERAGE DAILY RIDERSHIP BETWEEN 2017 AND 2021



## **Transit Coverage**



#### POPULATION COVERAGE BY SERVICE, WEEKDAY AM PEAK



Note: data collected April - May each year

## AM Peak Transit Coverage by Service





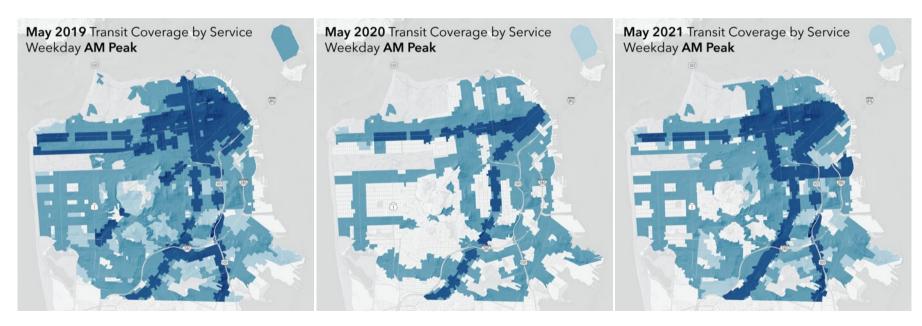
5-MIN FREQUENCY



10-MIN FREQUENCY



**ANY SERVICE** 



Source: Muni Google Transit Specification Feed (GTFS)

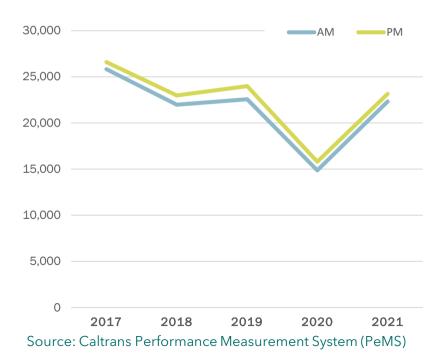
Note: For consistency of comparison with prior years, 2021 data does not reflect service restoration by Muni after May.

## **Highway Volumes**



#### **BAY BRIDGE**

Average Bay Bridge Volumes, Weekday Peak Period



#### US-101 & I-280 TOTAL

Total Average US-101 and I-280 Volumes at San Mateo Countyline, Weekday Peak Period

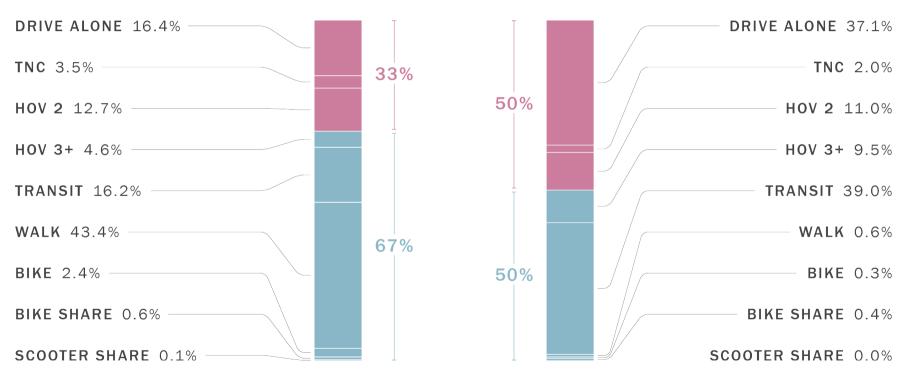


## Mode Share (Pre-COVID) by Market



#### **LOCAL PERSON TRIPS**

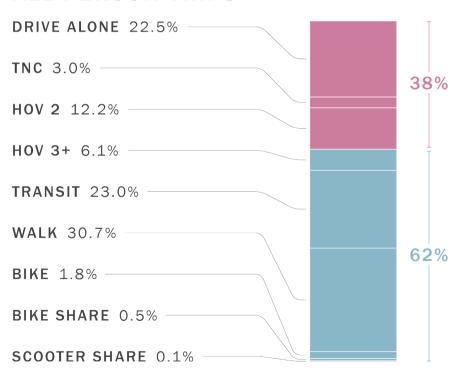
#### **REGIONAL PERSON TRIPS**



## Mode Share (Pre-COVID)



#### **ALL PERSON TRIPS**



- Implement a Continuous Travel
   Diary Survey Program
- Plan to field the next survey in 2022

AUTO & LOW-OCCUPANCY CARPOOL

## **SF Congestion Management Strategy**



- COVID led to unprecedented changes to peoples' livelihoods and the economy overall
- Impact of changes on peoples' travel captured in update to the CMP
- Need to continually monitor traffic and transit conditions and performance, so that we can better understand and respond to evolving conditions
- Work program highlights
  - Continue data collection on roadway and transit performance as well as travel behavior
  - Present data publicly through interactive websites
  - Coordinate with other agencies on major planning projects such as ConnectSF, SFTP, and Link21
  - Continue maintenance of regional travel demand model and GIS database

# Thank you

http://sfcta.org/cmp

