MTC's Bay Area Vision Zero System (BAYVIZ)

Background, Data, and Uses
C/CAG Bicycle and Pedestrian Advisory Committee



Policy Background





Working together with our partner agencies, encourage and support equitable and data-driven actions towards eliminating traffic fatalities and serious injuries for the Bay Area region by 2030



Principles & Actions



Regional Safety Leadership

- Encourage local jurisdictions to prioritize safety.
- Work towards aligning funding investments with safety goals.



Data Driven

- Regional safety data to inform safety policies, performance monitoring and target-setting.
- Serve as a regional safety data bank so cities can benefit from an integrated, reliable source of safety data.



Equity Focused

- Focus on equity and consider effects of any safety policies on communities of concern.
- Emphasize the concerns of all roadway users, including vulnerable users.



Evidence-based Policy and Legislation

 Support legislation and policy grounded in research and evidence.



Education and Engagement

- Engage with key stakeholders for safety policy development and implementation.
- Conduct public outreach and provide education and technical assistance for local jurisdictions.

Users and Use Cases



Community, Urban or Regional Planner

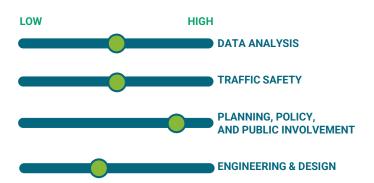
ROLE DESCRIPTION:

A planner in a DOT, MPO, Transportation or Transit Authority, City, or consultant firm

ROLE IN TRAFFIC SAFETY

- Strategic planning and policy documents
- Capital improvements planning
- Project management & conceptual design of safety projects

EXPERTISE & SKILLS



CHALLENGES

1.Usually not the final decision-maker in budgeting, design, or other safety decisions

2. Have to translate highly technical concepts to information anyone can understand

USE CASE	SAFETY DATA SYSTEM FUNCTIONS
Get evidence and data for use in planning docs	Dashboard generator will automatically tabulate crash data for a given area
Track performance measures over time	Regional dashboard with time series crash data
Communicate safety concepts and data to diverse stakeholders	Data and dashboard narrative to highlight value of safety projects

Major Use Case Themes

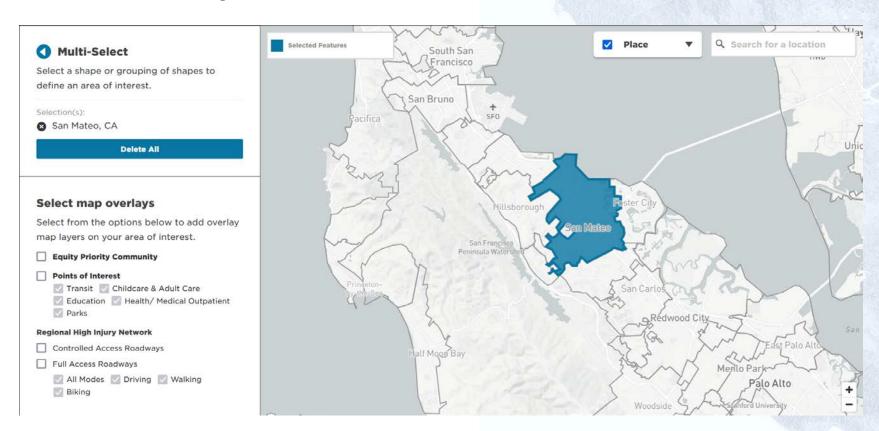
Theme	Use Case Example
Get community context	 Learn about who lives in a community I serve Learn about who is impacted by crashes in the area I live Understand equity and vulnerable populations
Learn or educate others about traffic safety	Add context to a news articlePrepare public remarks or a news release
Advocate for safer streets	Testify at a public hearing
Design safer and more inclusive streets	Identify areas with high crash ratesIdentify an appropriate crash countermeasure
Prioritize, budget, and fund safety projects	Apply for a grantDevelop a Capital Improvements PlanDevelop a TIP
Improve policy and programs around traffic safety	 Improve Safe Routes to School engagement Change speed limits laws Make traffic enforcement more equitable
Understand trends, set goals, and measure progress	Produce public reports for strategic planning documents

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BAYVIZ Tool & Data Available

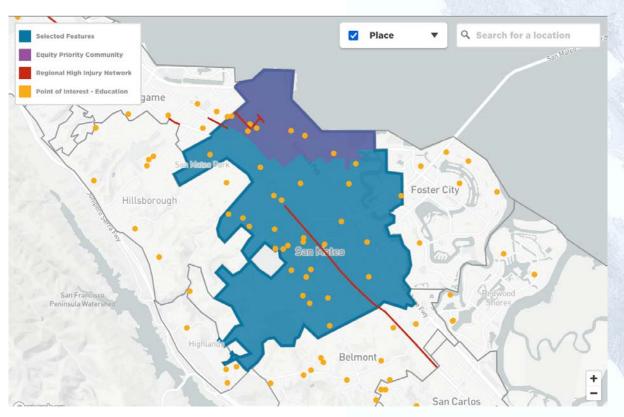


Selection Experience



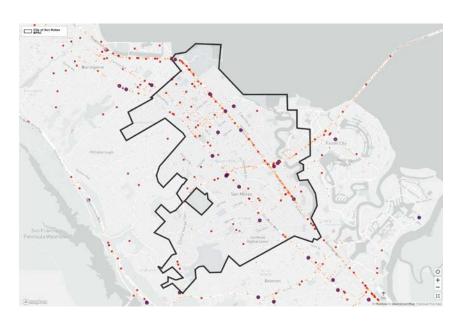


Contextual Layers





Collision Data Tab



- Data from TIMS
- Provides high level data on crash causes
- Summarizes the victims of collisions in the selected area
- Identifies top 10-15% of roadway miles by collisions in the selected area



Community Data Tab

Zero Car Households Zero Car Households 5.6% 2.230 of households City of San Mateo BPAC City of San Mateo BPAC 5.4% 14,264 of households Households San Mateo County, CA San Mateo County, CA 9.3% 255.771 of households Households Metropolitan Transportation Commission Metropolitan Transportation Commission, Sources: US Census Bureau ACS 5-year 2017-2021 Zero Car Households No Vehicle One Vehicle 29.7% Two Vehicles Three or More Vehicles 26.5% 24,1%

San Mateo County, CA Metropolitan Transportation Commission, CA

- Equity data, including EPCs, demographics, and other factors
- Mobility data to understand commute mode and walkability
- Key community locations, such as schools, healthcare facilities, parks, and transit stops

Percent of Households

Infrastructure Data Tab

Observed Speeds



- Street characteristics, including functional class, lane number, daily traffic
- Speed data (see left) for AM peak and mid day
- Bicycle lane, sidewalk, and painted crosswalk locations

Questions: contact Bryan Redmond at bredmond@bayareametro.gov

Thank you!

