SMART CITIES DATA PLATFORMS STATUS REPORT

City of San Jose – Smart Cities and Services Improvements Committee – June 02, 2022



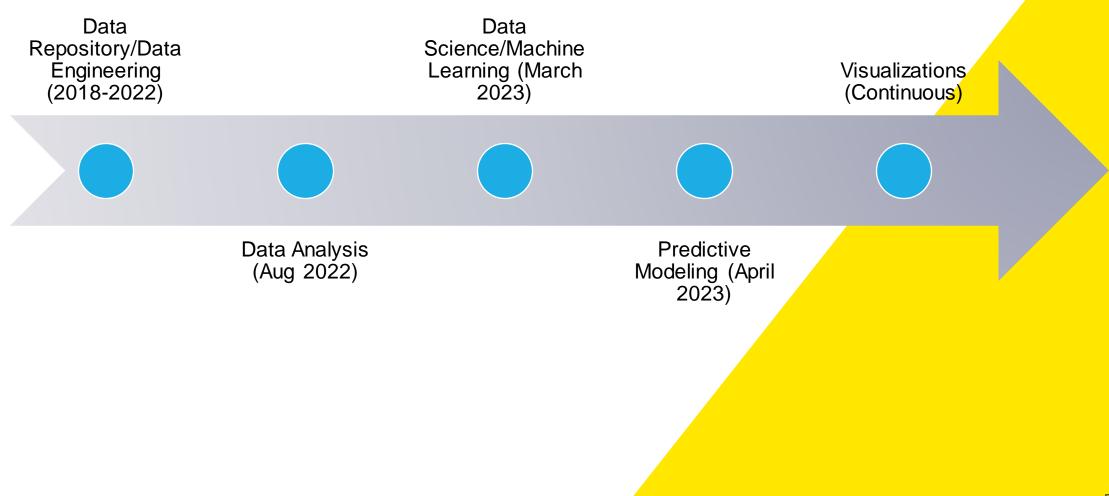
Accept the status report on Smart Data Platforms, related to a City Roadmap item for Vision Zero, which includes insights for transportation planning and addressing crashes and fatalities.



Current Status

- DOT internal data analytics automated processes
- Secure pipelines to migrate data to the UrbanLogiq's Data Repository
- UrbanLogiq's core functional layers completed
- Planning Department Phase 1 Key Performance Indicators
- Vision Zero Phase 1 "Use-Cases" and Outputs

Data Platform Timeline



Data Repository (Storing Data)

Data Engineering (Normalizing Data)

Data Science (Machine Learning)

Predictions (Intelligence)

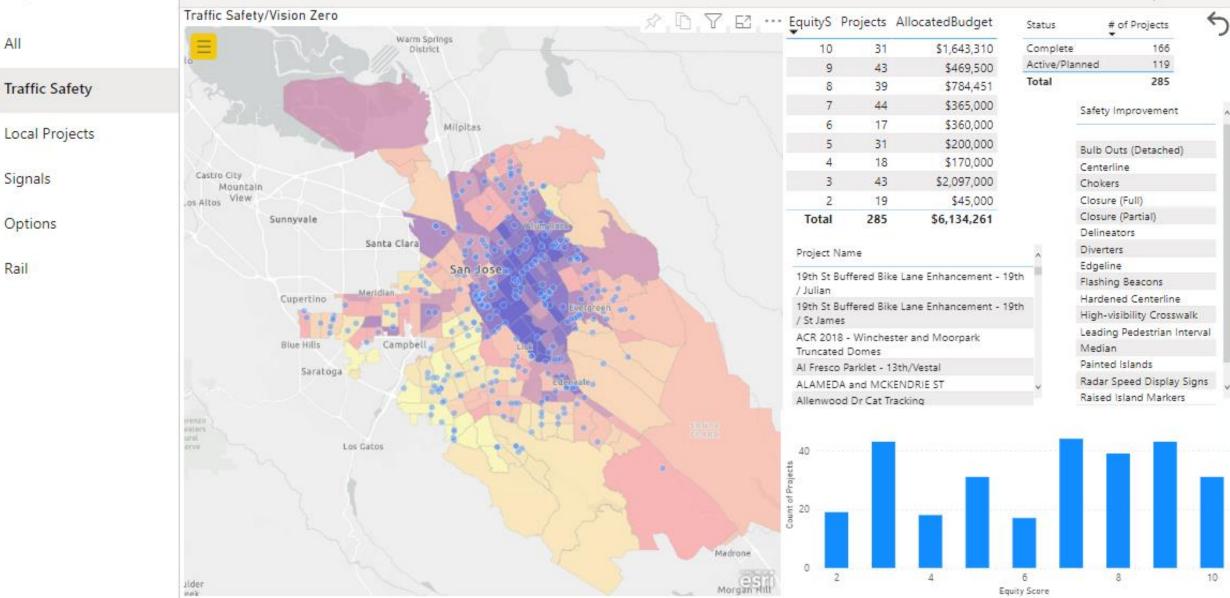
Visualizations & Outputs (Decisions)

Pages

 $\langle \langle$

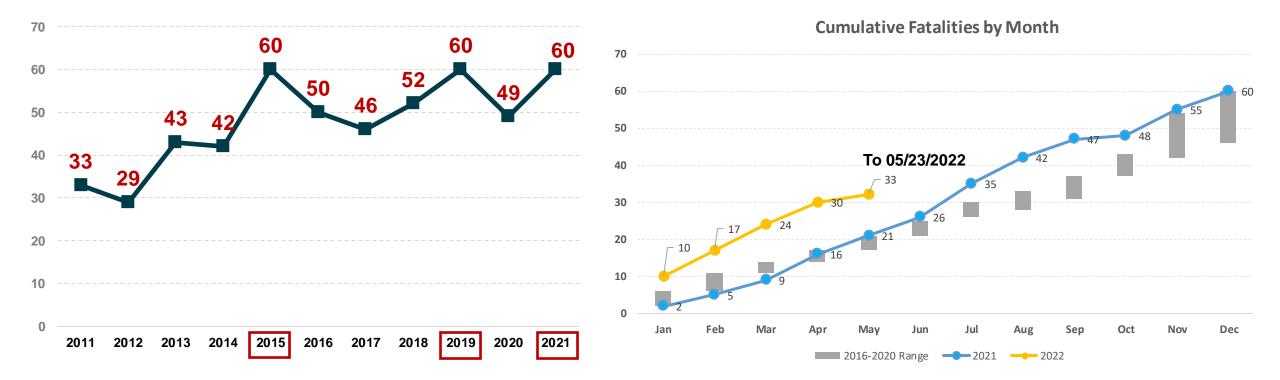
\square File \lor \mapsto Export \lor \bowtie Share \bigcirc Get insights \boxdot Subscribe \cdots

ち ロ ~ ロ ~ | ひ 戸

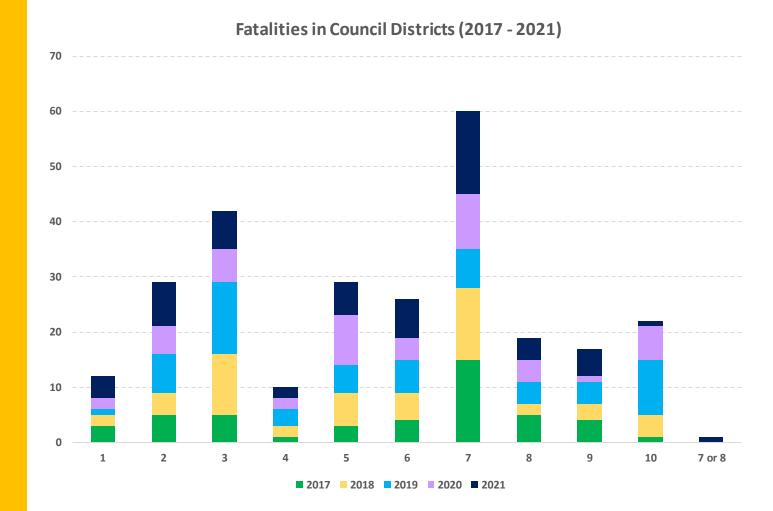




San José Traffic Fatalities



Traffic Fatalities Council by District



* Due to lack of exact Area of Impact (AOI), unable to determine on which district the crashed occurred.

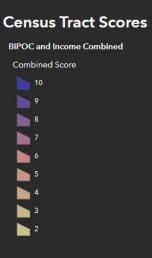
Council **District**: San José Equity Atlas

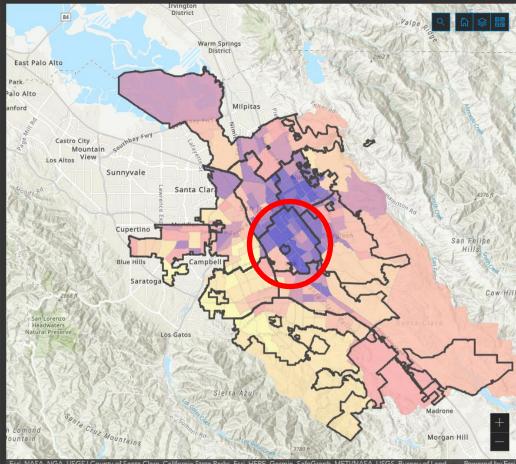
San Jose Equity Atlas [Beta]

Race Income Combined Score Redlining

COMBINED SCORE

The combined score (range from 2 to 10) of the race and income tabs indicate that the higher the number, the higher the concentration of both people of color and low income households in the selected census tract.

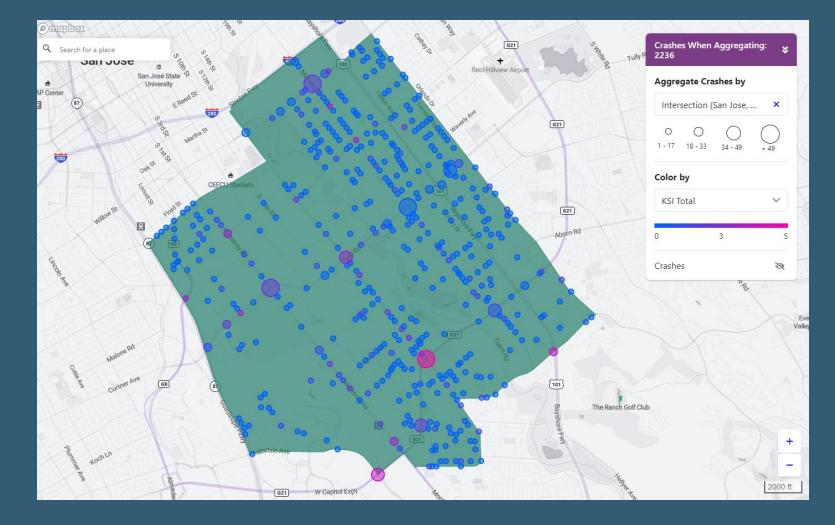




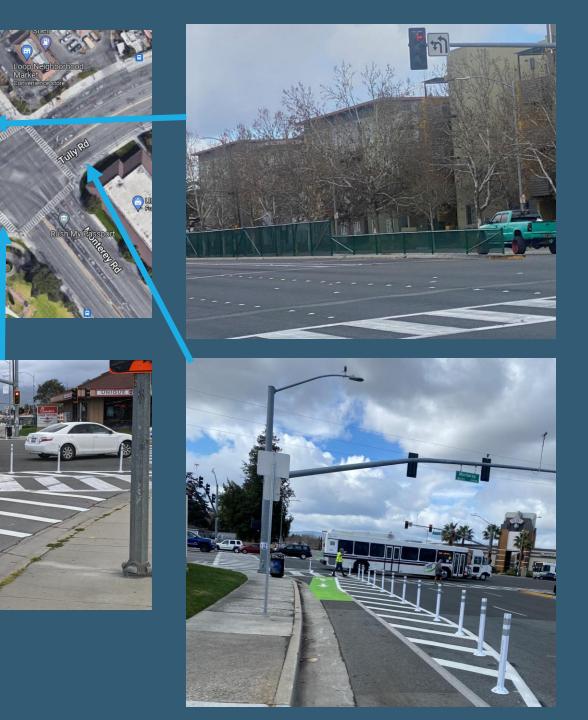
UrbanLogiq Map: Project Prioritization in District 7

UrbanLogiq search:

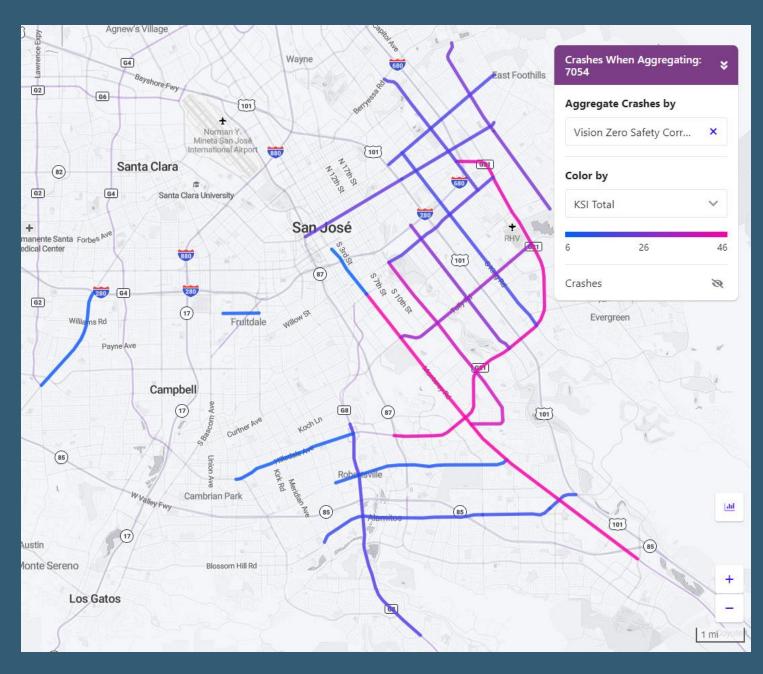
- Crashes 2016-2020
- District: 7
- Crashes aggregated by: intersection
- Color by: Count of Killed or Severely Injured (KSI)



Example Project: Quick Build Monterey at Curtner/Tully (2022) (D7)



UrbanLogiq: Map of Priority Safety Corridors with Count of People Killed or **Severely Injured** (KSI) in Traffic



UrbanLogiq: List

of Priority Safety Corridors with Count of People Killed or Severely Injured (KSI) in Traffic

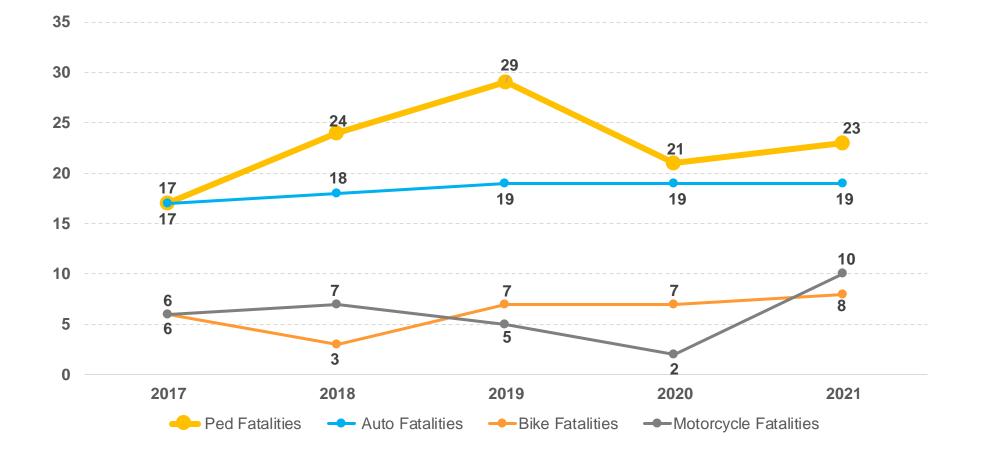
KSI Count by Safety Corridor (Top 10) 111 Monterey Road between Alma Ave and Bernal Road 46 Capitol Expressway between Route 680 and Route 87 44 Senter Road between Story Road and Monterey Road 40 Tully Road between Monterey Road and Capitol Expwy 32 McLaughlin Ave between I-680 and Capitol Expwy 28 White Road between Penitencia Creek Road and Cunningham Ave 25 Santa Clara St between Rte 101 and Hwy 87 22

2021 insights: Where are people getting injured while walking in darkness?

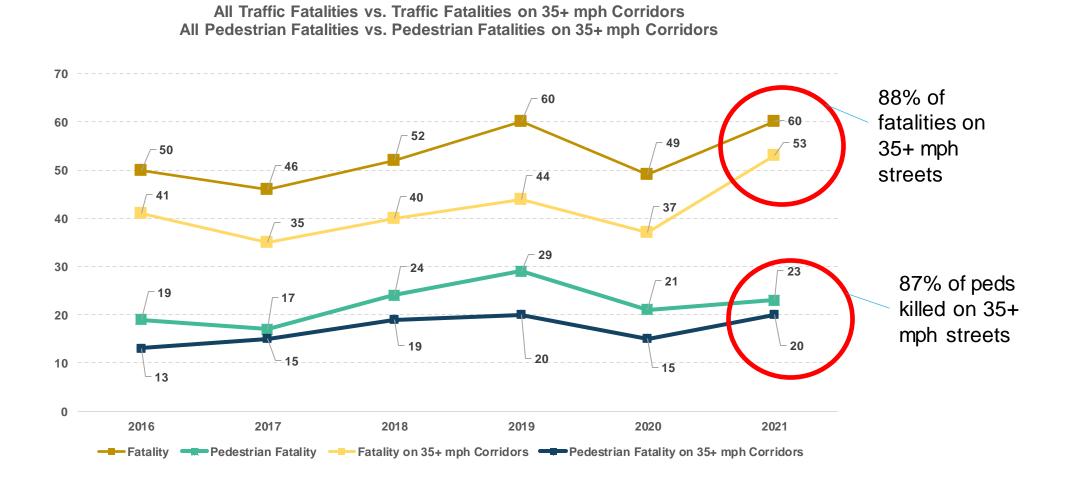
2021: 60 Traffic Fatalities (58 crashes) in San José

- 29 (48%) on Priority Safety Corridors
- 7 (12%) on Monterey Road
- 18 (30%) Unhoused
- 42 (70%) in darkness
- 10 (17%) motorcycle
- 23 (38%) people walking
 - \rightarrow 18 (78%) in darkness
- 44 (73%) male driver
- 18 (30%) with speeding as a factor

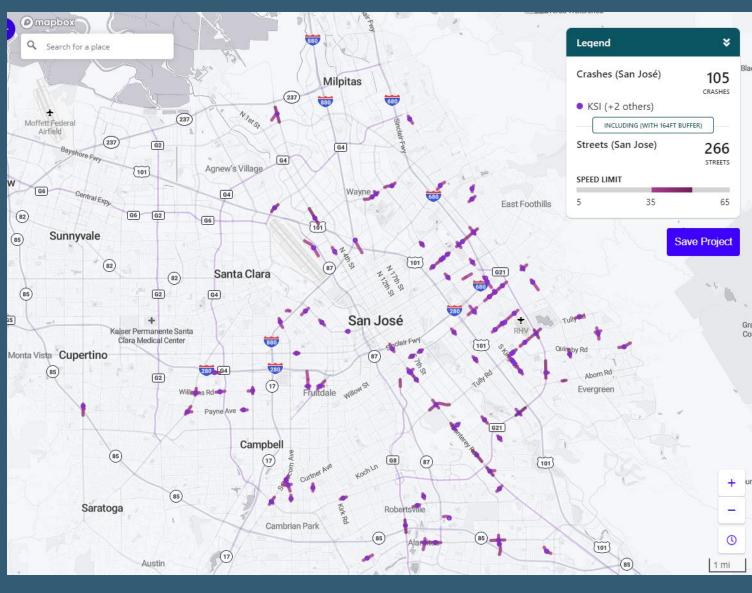
People killed while walking are the largest fatality group by road user type: 114 of 267 (2017-2021)



Up to 88% of annual Traffic Fatalities occur on roads with posted 35 to 50 mph speed limits



UrbanLogig: Map of fatal and severe injuries involving people walking on roads with posted speed limits of 35-50 mph



Team Slide

Here's what we look like and what we do













Vince Pereira Manager DOT IT Jesse Mintz-Roth Manager Vision Zero Thao Nguyen Data Manager Vision Zero

William Harmon GIS Analyst DOT IT Herman Chandi Co-Founder, Urban Logiq

Questions and Feedback!