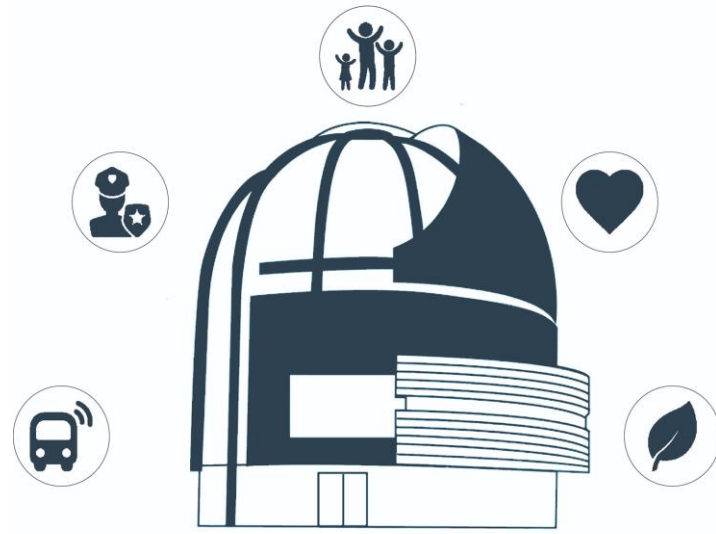


Smart City Roadmap 2.0 Project Status Update

Rajani Nair, Smart City Manager
Smart Cities and Service Improvements Committee
November 1, 2018

Connecting the Vision to Implementation

Smart City Vision (2016)



- Safe
- Inclusive
- User-Friendly
- Sustainable
- Demonstration

KEY: Developed In Process Future

Themes and Strategies for Smart City Roadmap Implementation (2018 – 2020)

Smart Infrastructure

Broadband Strategy
IoT Strategy
Drone & Robotics Strategy

User-Friendly Government

Open Data Environment strategy
Digital Service Strategy
Privacy Strategy
Data Strategy
Procurement Strategy

Smart Mobility

Autonomous Vehicles Strategy
Emerging Mobility Strategy
Mobility Strategy

Equity

Digital Inclusion Strategy
Community Wi-fi strategy
Incubator Strategy
Homelessness

Safe City

Emergency Management Roadmap
Safe City Strategy

Clean City & Smart Sustainability

Climate Smart Plan
My San Jose 2.0
EV strategy

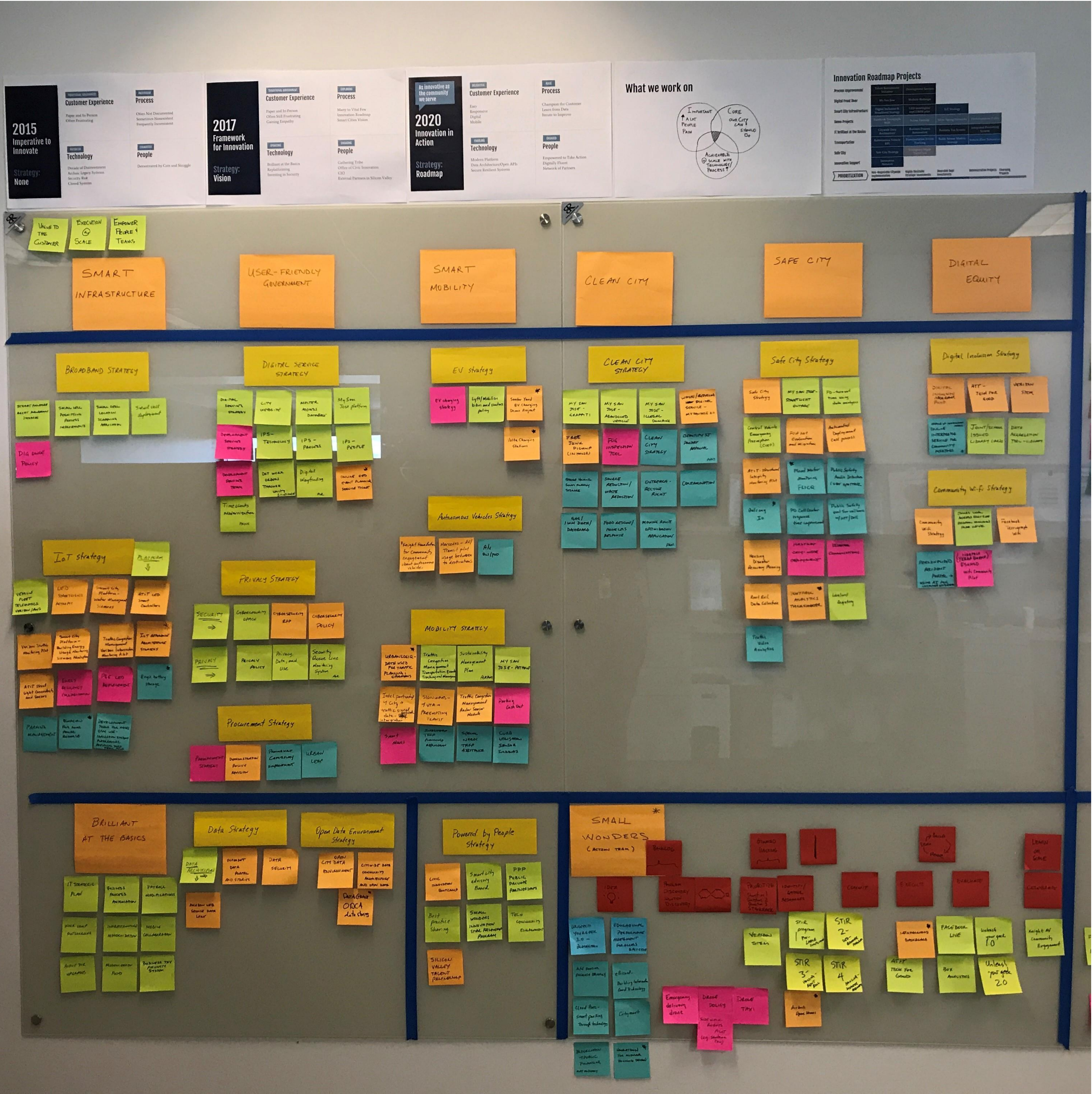
Brilliant at the Basics

Cybersecurity strategy
IT Strategic Plan
IT infrastructure strategy
Business Process Automation

Smart City Roadmap 2.0 is a work in progress.

At last count, the portfolio is over 600% larger (133 projects) than the Innovation Roadmap 1.0 (22 projects)

80% Big Rocks
20% Small Wonders



Theme	In Progress	Initiating	Backlog	Theme	In Progress	Initiating	Backlog	Theme	In Progress	Initiating	Backlog
Brilliant at the Basics	Secure the City	Business Tax Amnesty System	IT Sinking Fund	User-Friendly Government	Intergrated Permitting Systems - Technology	Development Services Strategy	Drone & Robotics Strategy	Equity	Landlord Registry	ESUHSD Wifi Community Pilot	Incubator Strategy
	IT Talent & Engagement	Community Data Portal	IT Services Reorganization		Intergrated Permitting Systems - Process	Demonstration Policy Revision	Energy Recilency Collaboration		Community Wi-Fi strategy	Census 2020	Homelessness
	IT Infrastructure Refresh	My San Jose 2.0	IoT Platform		Intergrated Permitting System - People	Civic Innovation Bootcamp	Engle Battery Storage		STEM pilot	Educational Performance for Access Eastside	Online Interpreter tool for Community Meetings
	Business Process Automation	Data Security and Privacy			Cybersecurity Office	Procurement Strategy	Parking Management		Tech for Good pilot		ESUHSD Wifi - Overfelt & Yerba Buena
	Products-Projects Management	City Open Data Environment			City Website	Development Services Team	Assest management tools for PRNS O&M use		Digital Inclusion Strategy		
	Business Tax System	Data Engagement (SVCF Grant)			Privacy Strategy	Procurement Capability Improvement	Beautify San Jose Project Approval		Digital Inclusion Program Fund		
	IT Policies Refresh	IoT Architecture			Data Strategy	Timeclocks Modernization			Joint/School Issued Library Cards		
Smart Infrastructure	Small Cell permitting team & process improvements	LED Streetlights	Battery storage solutions		Neighborhood Dashboard	Online Event planning service ticket service	Clean City & Smart Sustainability	Data Migration Tool - Library	Develop Reporting Structure for Greenhouse Gas Emissions for the City	Develop Electric Vehicle (EV) Strategy to Advance Public and Private Charging	
	Small cell deployment	Smart City Platform - Building Energy Usage Monitoring	Parking Management		My San Jose 2.0 - Abandoned Vehicle			Facebook Terragraph Wi-Fi			Develop Data Tools and Online Dashboard-
	Small Cell street furniture asset managment application	LED Lighting pilot and smart lighting nodes/controllers	Energy Resilency Collaboration		My San Jose 2.0 - Graffiti						Climate Smart Pathway Model-
	LED Replacement in Downtown	Structural Monitoring pilot	Blockchain for Solar Power Exchange		My San Jose 2.0 - Illegal Dumping			Develop Innovative Policies and Programs to Spur Energy Efficiency in Commercial			
	IoT Reference Architecture	Smart Infrastructure Nodes pilot	Volta Charging Stations		My San Jose 2.0 - Pothole				Food Rescue/Homeless Response		
	Dig Once Policy	Smart City Platform - Water Management			My San Jose 2.0 - Streetlight Outage				Source Reduction/Waste Reduction		
	Vehicle Fleet Telematics	Vision Zero Intersection Monitoring Services Pilot			My San Jose 2.0 - General Request				Outreach - Recycle Right		
	EV strategy	Vehicle Fleet Telematics - Verizon Connect/AWS			Facebook Live and Box Analytics				Contamination		
	Senter Yard EV Charging Demonstration Project	STIR program						Free Junk Pickup (In House)			
Smart Mobility	Traffic Congestion Management - Transportation Events Tracking and	Traffic Congestion Management - Radar Sensor Module	Autonomous Vehicles Strategy		Master Address Database				Fog Inspection Tool		
	UrbanLogiq	Autonomous Vehicle - Network Safety	Autonomous Vehicles Bus/Ped		Digital Services Strategy				Mowing Route Optimization Application		
	CVEP	Autonomous Vehicle - Connecting key destinations	Smart Moves		Cybersecurity RFP				GHG/IWM Data/Dashboard		
		Autonomous Vehicle - AV Community Engagement (Knight Foundation)	Parking Cash Out		Cybersecurity Policy				Beautify San Jose Project Approval		
		Sustainability Management Plan (Airport)	Curb Utilitization Sensor Insights		Online Event planning service ticket service						
		My San Jose - Pothole	Intergrated Trip Planning Application		Security Queue Line Monitoring System						
		Mobility Strategy	Spacing Needs Trip Assistance	Safe City	Central Vehicle Emergency Preemption (CVEP)	Automated Deployment Call process		Footfall Analytics			
	Emerging Mobility Strategy	Traffic Signal Data Intergration - Intel	FD using data analysis to improve turnout time		Safe City Strategy	Flood Water Monitoring					
	Sinewaves with VTA - Preempting Transit				AT&T - Structural Integrity Monitoring Pilot	Traffic video Analytics					
	New Parking Management				FirstNet Evaluation and Migration	Public Safety Audio Detection					
	9-1-1/3-1-1 Contact Handling Assessment / Improvements										

In Progress: On schedule, on-budget

Initiating

In-Progress: Minor Schedule or Budget Delay

Backlog

In-Progress: Major Schedule or Budget Delay

Theme	In Progress	Initiating	Backlog
Smart Infrastructure	Small Cell permitting team & process improvements	Citywide LED Streetlights	Battery storage solutions
	Small cell deployment	LED Lighting pilot and smart lighting nodes/controllers	Parking Management
	Small Cell street furniture asset managment application	Smart City Platform - Building Energy Usage Monitoring	Energy Resilency Collaboration
	LED Replacement in Downtown	Senter Yard EV Charging Demonstration Project	Blockchain for Solar Power Exchange
	IoT Reference Architecture	Smart Infrastructure Nodes pilot	Volta Charging Stations
	Dig Once Policy	Vehicle Fleet Telematics - Verizon Connect	Structural Monitoring pilot
	Vehicle Fleet Telematics	Smart City Platform - Water Management	
	EV strategy	Vision Zero Intersection Monitoring Services Pilot	

In Progress: On schedule, on-budget

In-Progress: Minor Schedule or Budget Delay

In-Progress: Major Schedule or Budget Delay

Initiating

Backlog

Theme	Key Victory
Brilliant at the Basics	HR/Payroll/Talent/Budget Modernizations My San Jose/CRM/1.0-1.5 Open Data Architecture Revenue System Treasury System Workers Comp System and Service IT Roadmap Brilliant at the Basics
Smart Infrastructure	Broadband Strategy IoT Strategy Broadband Agreements Vehicle Fleet Telematics AV Pilot Projects
User-Friendly Government	Open Data Environment Strategy HR Talent Recruitment Innovators Network Smart City Advisory Board Work Orders through Unity using Salesforce platform
Smart Mobility	Radar Sensor Module Lyft/Mobilize bikes and scooters policy
Equity	AirBnB Partnerships
Safe City	Emergency Management Roadmap Fire Alert System Police Dashboard

Sample goals, outcomes and results from strategy to projects

Theme	Smart Infrastructure	<div>Operational Metrics</div> <div><u>Location Screening</u> # of locations approved with average time to review</div> <div><u>Permitting</u> Permitting time for structural and electrical sub-teams Average turn-around time for City and Carriers Average # of review cycles</div> <div><u>Site License Agreement</u> # in progress and # executed</div> <div><u>Construction</u> # pending final inspection # of sites activated</div>
Strategy	Broadband Strategy	
Strategy Goals	Consumer choice Digital inclusion Preparing for Smart City	
Project Outcomes	Negotiated Large Scale Agreements with ATT, Verizon and Mobilite Established small cell team Development of Digital Inclusion Program Fund Design, Research & Recommendations	
Desired End Result	Launch and scale deployment of 4,000 Small cells and 1,000 miles of fiber Improve small cell process and technology Launch Smart City zones & Digital Inclusion Strategy	

Next Steps

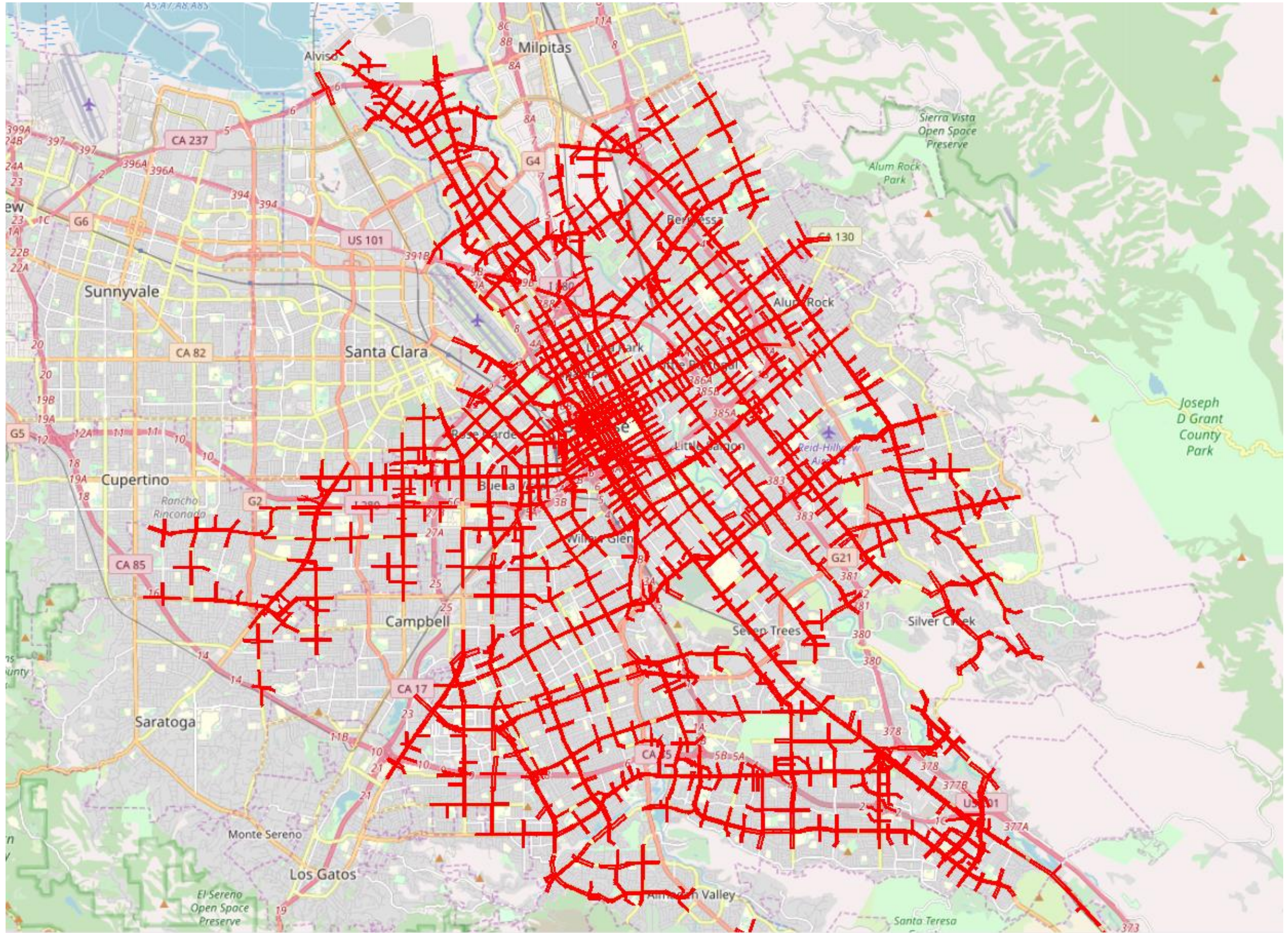
Continuing collaboration and prioritization of projects with City Departments

Developing and evaluating small wonders prioritization process and selecting small wonders projects

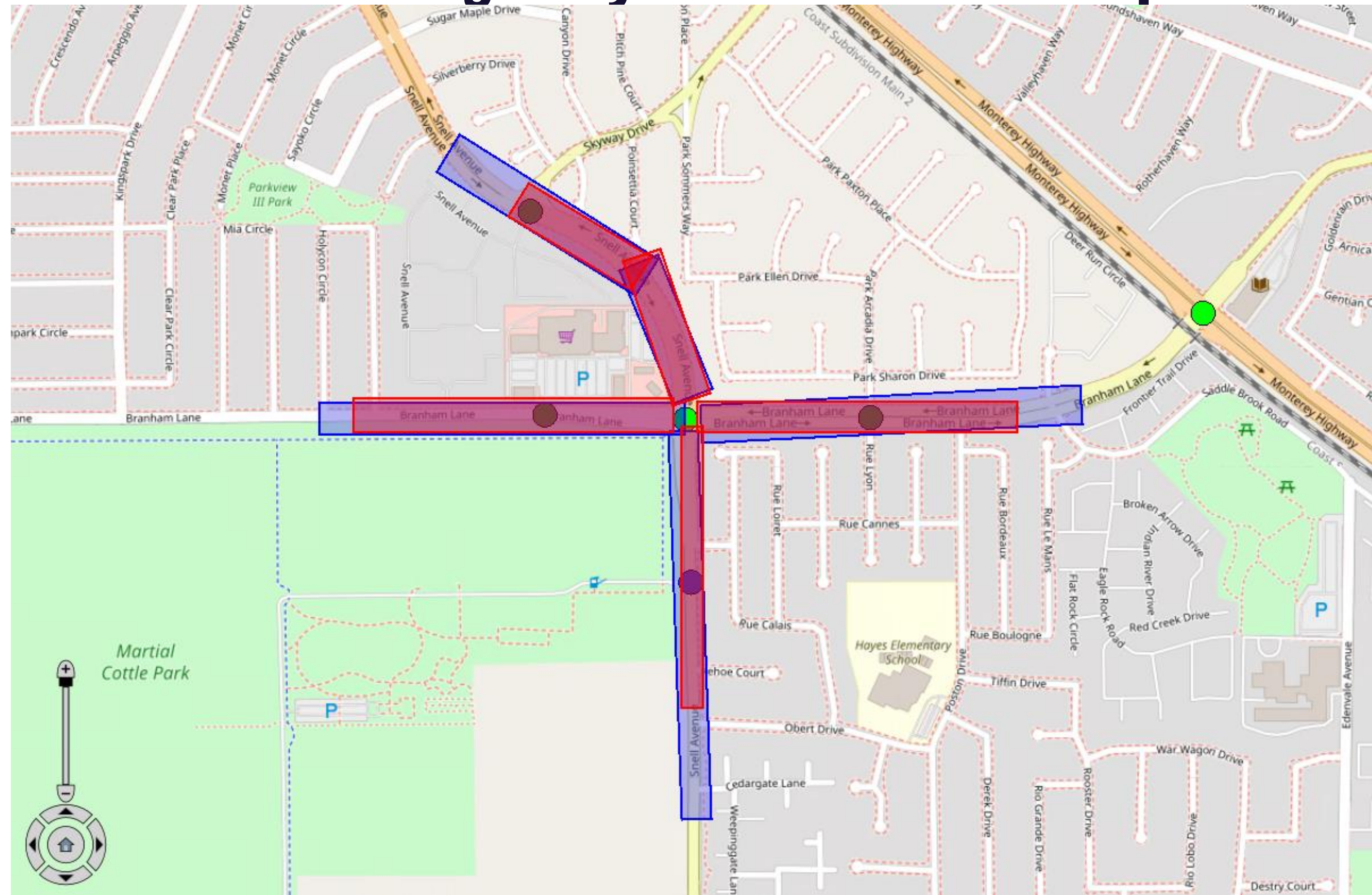
Identifying Resources/Funding for execution at scale

Developing a framework for identifying strategic outcomes and metrics for strategies with Department support

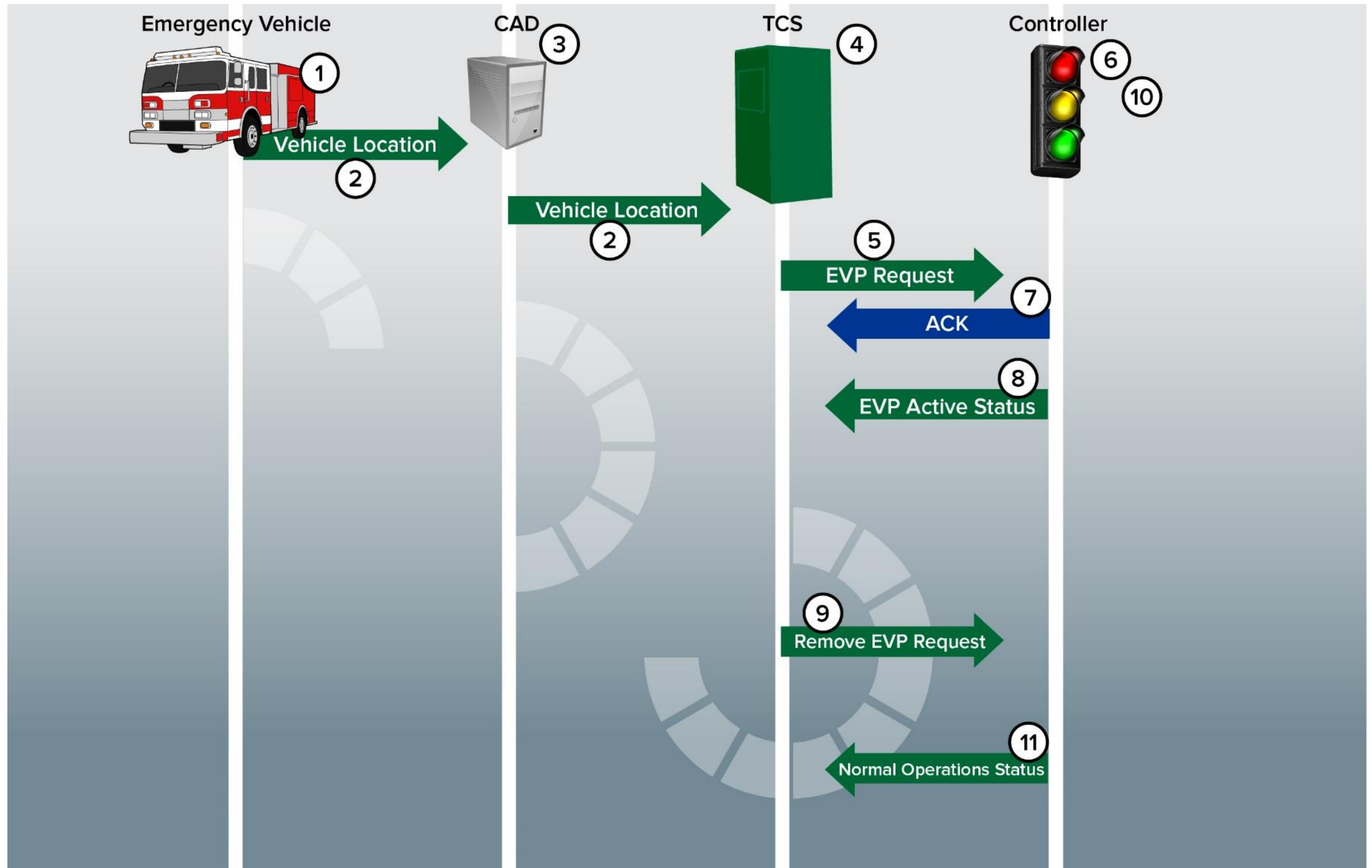
Central Emergency Vehicle Pre-emption



Central Emergency Vehicle Pre-emption



Central Emergency Vehicle Pre-emption



**Placeholder
“Video of CEVP”**

Urbanlogiq



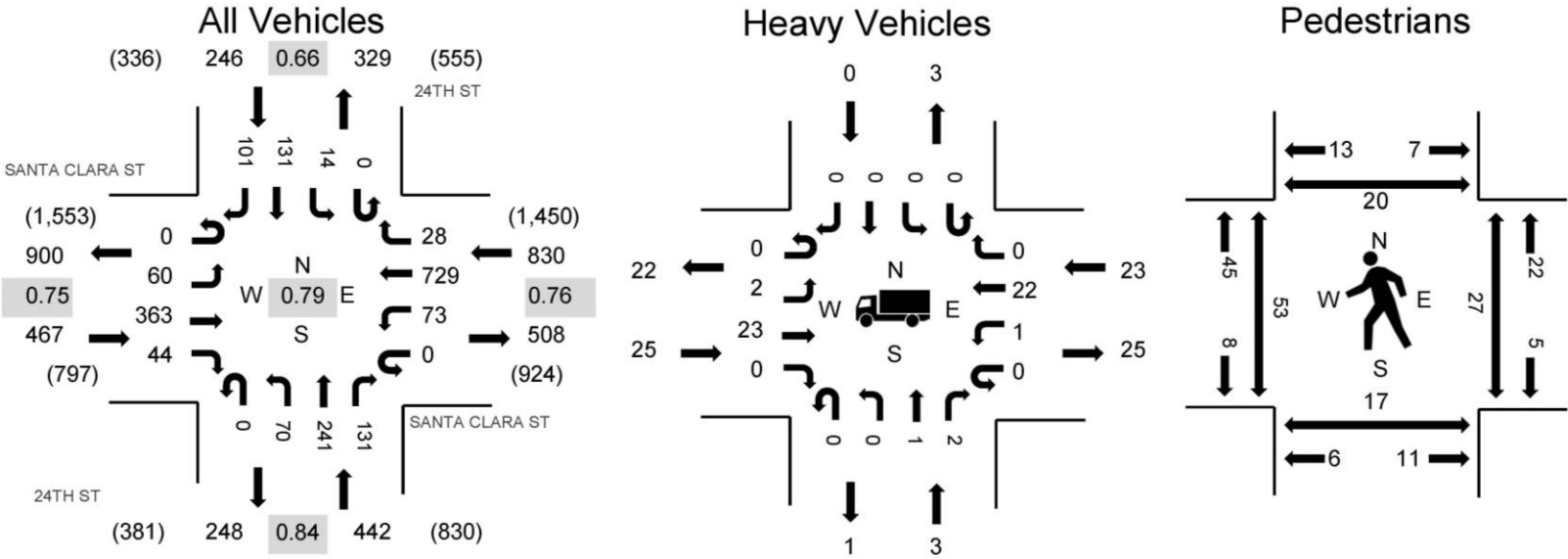
Urbanlogiq



(303) 216-2439
www.alltrafficdata.net

Location: 3790 24TH ST & SANTA CLARA ST AM
Date: Thursday, September 20, 2018
Peak Hour: 07:25 AM - 08:25 AM
Peak 15-Minutes: 07:40 AM - 07:55 AM

Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	5.4%	0.75
WB	2.8%	0.76
NB	0.7%	0.84
SB	0.0%	0.66
All	2.6%	0.79

Traffic Counts - All Vehicles

Interval Start Time	24TH ST Northbound				SANTA CLARA ST Eastbound				24TH ST Southbound				SANTA CLARA ST Westbound				Total	Rolling Hour
	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right		
7:00 AM	0	3	20	12	0	0	27	1	0	2	4	0	0	7	40	0	116	1,793
7:05 AM	0	6	14	11	0	2	6	2	0	1	5	2	0	3	26	1	79	1,830
7:10 AM	0	3	13	12	0	7	21	3	0	0	5	0	0	6	28	3	101	1,877
7:15 AM	0	8	20	16	0	1	17	1	0	1	4	5	0	4	45	2	124	1,941
7:20 AM	0	4	12	11	0	2	26	1	0	0	6	2	0	3	54	5	126	1,956
7:25 AM	0	7	27	9	0	4	24	4	0	0	7	6	0	2	40	3	133	1,985
7:30 AM	0	3	27	16	0	5	33	1	0	0	4	7	0	2	62	2	162	1,983
7:35 AM	0	1	27	15	0	8	25	3	0	2	9	11	0	3	50	1	155	1,965
7:40 AM	0	5	19	11	0	9	44	8	0	2	13	13	0	14	89	6	233	1,921
7:45 AM	0	4	21	8	0	9	34	3	0	1	17	9	0	5	58	2	171	1,824
7:50 AM	0	8	25	8	0	6	36	6	0	2	13	17	0	11	92	4	228	1,764
7:55 AM	0	4	10	15	0	7	23	3	0	2	20	14	0	4	60	3	165	1,677
8:00 AM	0	7	10	6	0	6	27	3	0	2	11	11	0	7	61	2	153	1,620
8:05 AM	0	8	21	9	0	0	28	2	0	1	14	5	0	3	35	0	126	
8:10 AM	0	4	22	12	0	2	34	4	0	1	7	2	0	6	69	2	165	
8:15 AM	0	8	16	11	0	3	25	3	0	1	14	5	0	6	45	2	139	
8:20 AM	0	11	16	11	0	1	30	4	0	0	2	1	0	10	68	1	155	
8:25 AM	0	11	15	8	0	1	28	2	0	0	5	1	0	6	53	1	131	
8:30 AM	0	5	11	7	0	3	34	0	0	0	6	3	0	6	66	3	144	
8:35 AM	0	19	19	12	0	5	24	1	0	0	2	1	0	4	23	1	111	
8:40 AM	0	8	17	10	0	0	25	0	0	0	5	1	0	3	65	2	136	
8:45 AM	0	8	12	5	0	0	21	3	0	0	7	3	0	5	45	2	111	
8:50 AM	0	12	13	12	0	2	40	1	0	0	4	4	0	6	46	1	141	
8:55 AM	0	1	11	7	0	3	18	2	0	2	6	3	0	4	49	2	108	
Count Total	0	158	418	254	0	86	650	61	0	20	190	126	0	130	1,269	51	3,413	
Peak Hour	0	70	241	131	0	60	363	44	0	14	131	101	0	73	729	28	1,985	

Urbanlogiq

