Today’s Agenda

(d) 1 – Smart City Roadmap Status Update
(d) 2 – Electric Mobility Strategy Update
(d) 3 – Technology Deployment Audit Report

Smart Cities and Service Improvements Committee
December 5, 2019

Dolan Beckel, Director, Civic Innovation
Kip Harkness, Deputy City Manager
Rajani Nair, Smart City Manager

(d) 1 - Smart City Roadmap Update

Smart Cities and Service Improvements Committee
December 5, 2019

Rajani Nair, Smart City Manager, Civic Innovation

PRIORITIZED SMART CITY ROADMAP 2.0 MARCH 2019

THEMES ALPHABETIZED

User-Friendly Government	Integrated Permitting System	Privacy Strategy	City Website	My San Jose	Digital Services Strategy	Data Strategy	Start Up in Residence (STiR) program	Master Address Database Integration		
Smart Mobility	Autonomous Vehicle – First and Last Mile	Transportation Events Tracking (E-tracker)								
Smart Infrastructure	Small Cell permitting and deployment	Small Cell Permitting and Process Improvements	Facebook Terragraph Wi-Fi	IoT Reference Architecture						
Safe City	Safe City Strategy	FirstNet Evaluation and Migration	Silicon Valley Regional Communi-cation System	Fire Station Alerting System	Fire Department Business Intelligence					
IT Roadmap	Cybersecurity Work Plan	IT Infrastructure Modernization	City Open Data Environment	Business Tax	Products Management-Projects Execution	Business Tax Amnesty Solution	Advanced Cybersecurity Products and Service RFP	Cybersecurity Policy	Community Engagement through Data	IT Staff Skill-Up and Engagement
Equity	Digital Inclusion Program Fund	Community Wi-Fi Strategy	Rent Registry (Apartment Rent Ordinance)	Access Eastside	Joint/School Issued Library Cards	Data Migration Tool				
Climate Smart	EV Strategy	Greenhouse Gas Emissions Report and Dashboard	Residential Housing Natural Gas Elimination Roadmap							

LEGEND – PROJECT STATUS

- ON TRACK
- ISSUES WITH SCHEDULE, BUDGET OR SCOPE
- AT RISK, CORRECTIVE ACTIONS NEEDED

HIGHEST → LOWEST

RELATIVE PRIORITY OF PROJECTS FROM HIGH TO LOW

PRIORITIZED SMART CITY ROADMAP 2.0 DECEMBER 2019

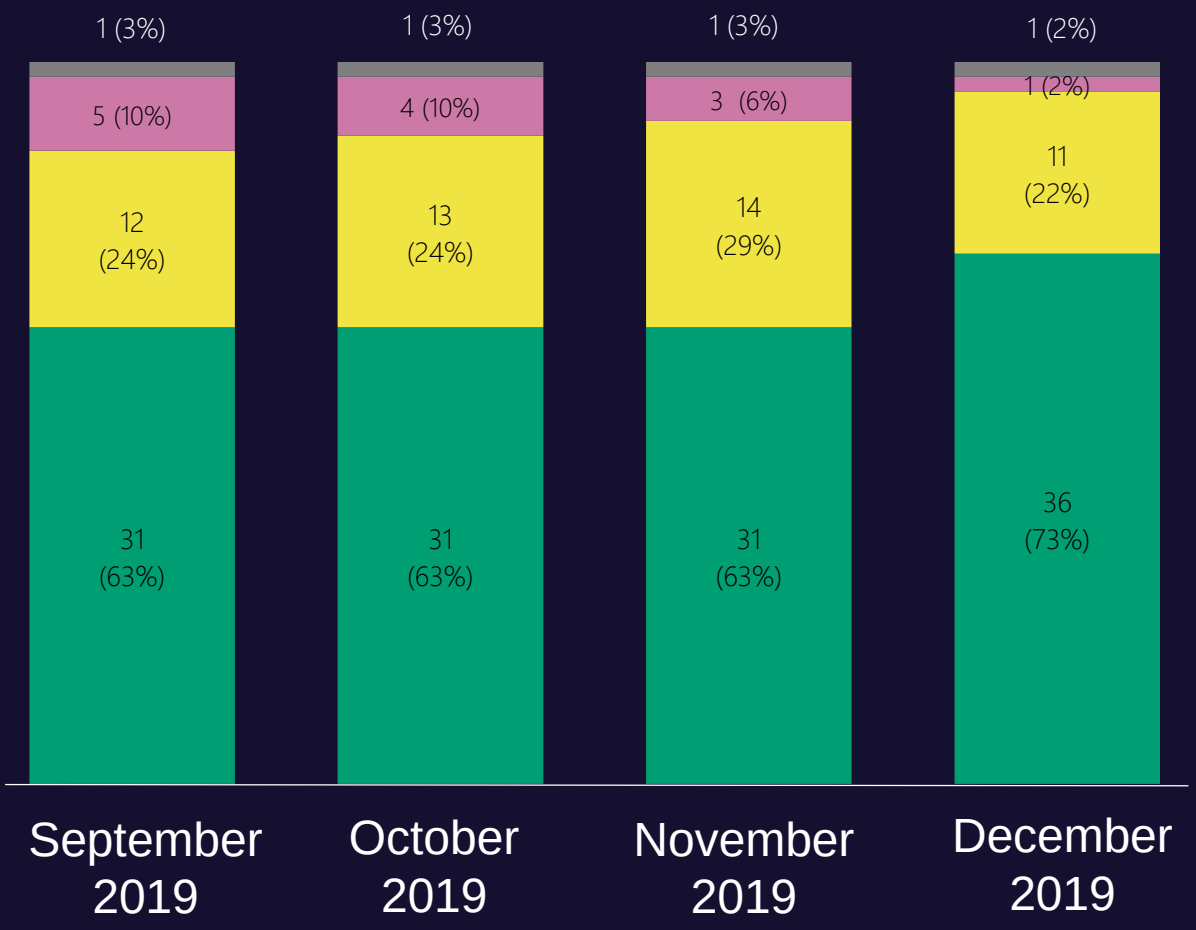
User-Friendly Government	Integrated Permitting/ Development Transformation	Privacy Strategy	City Website	My San Jose	Digital Services Strategy	Data Strategy	Start Up in Residence (STIR) program	Spatial Data Integration (SDI)	
Smart Mobility	Autonomous Vehicle – First and Last Mile	Transportation Events Tracking (E-tracker)	Verizon Traffic Data Services Pilot	Access and Mobility Plan	Micro-mobility sidewalk and data pilots				
Smart Infrastructure	Small Cell Permitting Deployment and Process Improvements	LED Smart Controllers	IoT Reference Architecture	Irrigation Sensor Connectivity - CalSense	Facebook Terragraph Wi-Fi	AT&T Community Wi-Fi at Community Centers/Parks			
Safe City	Safe City Strategy	FirstNet Evaluation and Migration	Silicon Valley Regional Communi-cation System	Text to 911 (sub project to Next Gen 911)	Fire Station Alerting System	Fire Department Business Intelligence	EOC Damage Assessment GIS tools and capabilities	Verizon Intersection Safety Analytics	Smart Digital Infrastructure Nodes – AT&T pilot
IT Roadmap	Cybersecurity Work Plan	IT Infrastructure Modernization	City Open Data Environment	Business Tax System	Products Management-Projects Execution	Business Tax Amnesty Solution	Advanced Cybersecurity Products and Service RFP	IT Staff Skill-Up and Engagement	
Equity	Digital Inclusion Program Fund	Community Wi-Fi Strategy	Rent Registry (Apartment Rent Ordinance)	Access Eastside	Joint/School Issued Library Cards	DAHLIA Affordable Housing Portal	AT&T Tech for Good Pilot	Verizon STEM	
Climate Smart	Electric Mobility Strategy & Roadmap	Greenhouse Climate Smart Engagement	Gas Emissions Report and Dashboard	Climate Smart Dashboard	Residential Housing Natural Gas Elimination Roadmap				

LEGEND – PROJECT STATUS

- ON TRACK
- AT RISK, CORRECTIVE ACTIONS NEEDED
- ISSUES WITH SCHEDULE, BUDGET OR SCOPE
- ON HOLD

HIGHEST → RELATIVE PRIORITY OF PROJECTS FROM HIGH TO LOW → LOWEST

SMART CITY ROADMAP 2.0 PERFORMANCE DECEMBER 2019



MONTHLY SUMMARY OF STATUS CHANGES

- Integrated Permitting Development Transformation –Yellow to Green
- City Website – Yellow to Green
- Digital Services Strategy – Green to Yellow
- Data Strategy – Red to Green
- Fire Department Business Intelligence – Yellow to Green
- IT Infrastructure Modernization – Red to Yellow
- Access Eastside – Yellow to Green
- Electric Mobility Roadmap – Yellow to Green

LEGEND – PROJECT STATUS

- ON TRACK
- ISSUES WITH SCHEDULE, BUDGET OR SCOPE
- AT RISK, CORRECTIVE ACTIONS NEEDED
- ON HOLD

SMART CITY ROADMAP 2.0 – RED STATUS SUMMARY

Project Name	Corrective Course of Action - next milestone to date	Duration of Red Status (since March 2019)
My San Jose	Pursing change orders (includes language translation) for 1.x for council approval by January 2020 and confirming scope and approach for My San Jose 2.0	10 months

INITIATING HIGH PRIORITY PROJECTS

User-Friendly Government	Recycling/ Garbage Digital Services	City Intranet	GIS Strategic Roadmap	
Smart Mobility	Autonomous Vehicle – Network Safety	Emerging Mobility Strategy		
Smart Infrastructure	Vehicle Fleet Telematics – Verizon Connect	Macro Site Deployment	Building Energy Usage Monitoring	
Safe City	Fusion/Data Collection Center	Dual Network Connectivity of Fire Apparatus (Coverage)	Police Department Business Intelligence	911/311 Transition
IT Roadmap	Business Process Automation	Tech Deployment Improvements		
Equity	Data Migration Zone	Homelessness – Data Analytics and Digital Services		
Climate Smart				

Requirements for Executing High Priority Projects:

✓ Approved budget

✓ Dedicated team of staff

✓ Signed contract

Moving to Active on Roadmap next committee meeting

SMALL WONDERS/UNLEASH YOUR GEEK – DECEMBER 2019

Theme	Operational Efficiency	Community Benefit/Unleash Your Geek
User-Friendly Government		Multilingual Tools for Emergency Management
		Real-Time Interpretation Tools for Limited and non-English Speaking Residents
Smart Mobility	Transportation Data Platform	
Smart Infrastructure		
Safe City		Unmanned Aerial System (UAS) for Emergency Response
Equity	Housing Voucher Tenant Discrimination Detection and Reporting	
Climate Smart		Multilingual Technology for Recycling Behavior Change

LEGEND – PROJECT STATUS

ON TRACK

ISSUES WITH SCHEDULE, BUDGET OR SCOPE

AT RISK, CORRECTIVE ACTIONS NEEDED

INITIATING SMALL WONDERS CHALLENGE

GREEN SPOTLIGHT DECEMBER 2019

User-Friendly Government	Integrated Permitting/ Development Transformation	Privacy Strategy	City Website	My San Jose	Digital Services Strategy	Data Strategy	Start Up in Residence (STIR) program	Spatial Data Integration (SDI)	
Smart Mobility	Autonomous Vehicle – First and Last Mile	Transportation Events Tracking (E-tracker)	Verizon Traffic Data Services Pilot	Access and Mobility Plan	Micro-mobility sidewalk and data pilots				
Smart Infrastructure	Small Cell Permitting Deployment and Process Improvements	LED Smart Controllers	IoT Reference Architecture	Irrigation Sensor Connectivity - CalSense	Facebook Terragraph Wi-Fi	AT&T Community Wi-Fi at Community Centers/Parks			
Safe City	Safe City Strategy	FirstNet Evaluation and Migration	Silicon Valley Regional Communi-cation System	Text to 911 (sub project to Next Gen 911)	Fire Station Alerting System	Fire Department Business Intelligence	EOC Damage Assessment GIS tools and capabilities	Verizon Intersection Safety Analytics	Smart Digital Infrastructure Nodes – AT&T pilot
IT Roadmap	Cybersecurity Work Plan	IT Infrastructure Modernization	City Open Data Environment	Business Tax System	Products Management-Projects Execution	Business Tax Amnesty Solution	Advanced Cybersecurity Products and Service RFP	IT Staff Skill-Up and Engagement	
Equity	Digital Inclusion Program Fund	Community Wi-Fi Strategy	Rent Registry (Apartment Rent Ordinance)	Access Eastside	Joint/School Issued Library Cards	DAHLIA Affordable Housing Portal	AT&T Tech for Good Pilot	Verizon STEM	
Climate Smart	Electric Mobility Strategy & Roadmap	Greenhouse Climate Smart Engagement	Gas Emissions Report and Dashboard	Climate Smart Dashboard	Residential Housing Natural Gas Elimination Roadmap				

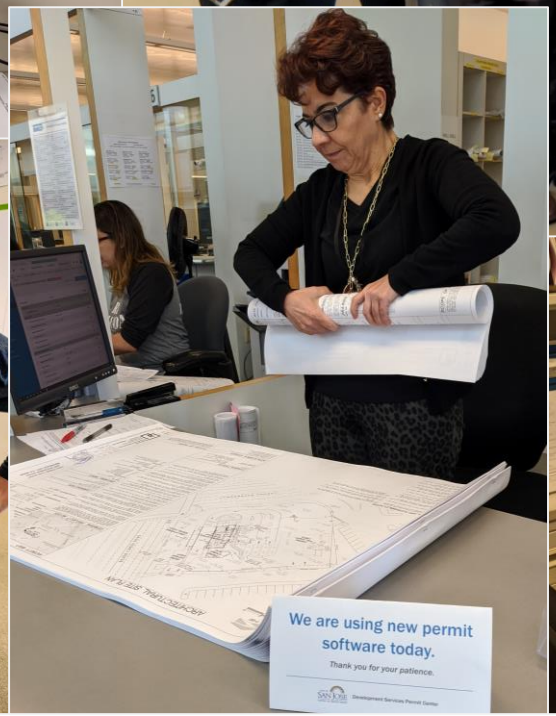
LEGEND – PROJECT STATUS

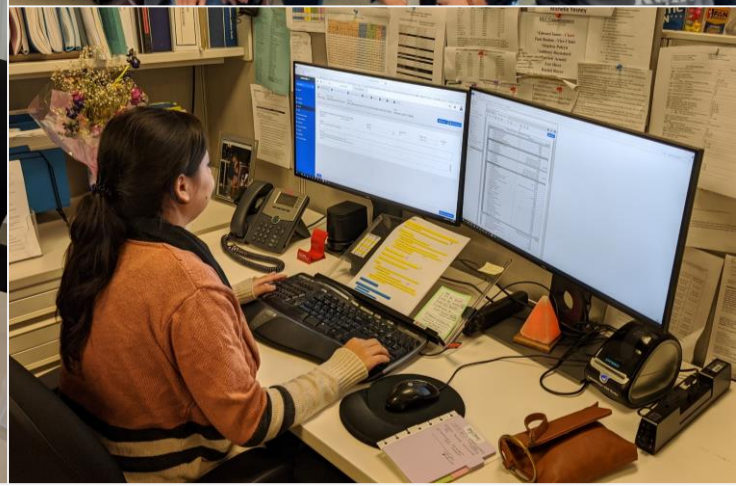
- ON TRACK
- AT RISK, CORRECTIVE ACTIONS NEEDED
- ISSUES WITH SCHEDULE, BUDGET OR SCOPE
- ON HOLD

HIGHEST → RELATIVE PRIORITY OF PROJECTS FROM HIGH TO LOW → LOWEST

SMART CITY ROADMAP 2.0 – GREEN PROJECT SPOTLIGHT

Integrated Permitting System/Development Transformation





Digital Cities Award 2019

Victory List:

- Public-private partnership with AT&T, Verizon and Mobilitie
- Launch of the Digital Inclusion Fund
- Partnerships with FirstNet, Terragraph, Daimler-Bosch
- City's use of OKRs (Objectives and Key Results) as a framework for defining and tracking outcomes
- City Manager's Enterprise Priorities

Top 10 Digital Cities (+500k residents):

1. San Diego, CA
2. **San José, CA**
3. Denver, CO
4. Los Angeles, CA
5. Phoenix, AZ
6. Mesa, AZ
7. Louisville, KY
8. El Paso, TX
9. Albuquerque, NM
10. Charlotte, NC / Dallas, TX

Defining a Citywide Internet of Things Strategy

KESHAV GUPTA

BENCHMARKED AGAINST GLOBAL CITIES

NEGOTIATED $4M WORTH OF SMART CITY SOLUTIONS

STRENGTHENING PUBLIC-PRIVATE PARTNERSHIPS

(d) 1 - Smart City Roadmap Update

Smart Cities and Service Improvements Committee
December 5, 2019

Rajani Nair, Smart City Manager, Civic Innovation

Appendix – Red, Yellow and Green Status Details

- My San Jose
- Data Strategy
- Information Technology Infrastructure Modernization

LEGEND

Indicates changes from last SCSIC meeting

SMART CITY ROADMAP 2.0 - RED STATUS DETAIL

My San Jose

Issues	Resolution Approach	Team Action Items – Dec.
▪ Ramping up the My San Jose (MSJ) 2.0 effort required several months to establish governance, team structure, and shared vision ▪ Request for Proposal (RFP) was in procurement backlog for 6 months due to staffing challenges and increased workload ▪ Key personnel departed from the City in March 2019	▪ Onboarded replacement IT Product-Project Manager by June 2019 ▪ Explore interim solution for language translation in My San Jose 1.X platform ▪ RFP is now actively in queue with Purchasing and is currently being reviewed	Staff finalizing recommendations on interim language translation for change orders on My San Jose 1.X Continue to collaborate with Finance to execute RFP for 2.0
		Council Action Items
		Anticipated to seek Council approval - January 2020
		Look ahead: Report to Smart Cities and Service Improvements Committee June 2020

LEGEND

Indicates changes from last SCSIC meeting

SMART CITY ROADMAP 2.0 - YELLOW STATUS DETAIL

Information Technology (IT) Infrastructure Modernization		
Issues	Resolution Approach	Team Action Items – Dec.
▪ Original goal: Award and execution of contract by October 2018 and completion of implementation by June 2019 ▪ Protest was received ▪ Awarded by City Council in late-December 2018 ▪ Contract remains in-process with Purchasing (4-5 agreements)	▪ Finance is working to complete all four contracts for City Open Data Environment project by September 2019	Contract signed and IT proceeding with work
		Council Action Items
		NONE
		Look ahead: Report to Smart Cities and Service Improvements Committee TBD

LEGEND

Indicates changes from last SCSIC meeting

SMART CITY ROADMAP 2.0 - GREEN STATUS DETAIL

Data Strategy

Issues	Resolution Approach	Team Action Items – Dec.
▪ Two unsuccessful recruitments due to competitive market challenges ▪ Fuse Fellow program was unable to provide successful resources	▪ Currently onboarding new Data Lead with goal of developing first draft of informed data strategy by Spring 2020 ▪ First Statement of Work will begin Jan 2020; Working on second statement of work with John Hopkins GovEx ▪ Pursuing re-adjudication of Bloomberg What Works Cities certification	• Finalizing second statement of work with John Hopkins GovEx
		Council Action Items
		NONE
		Look ahead: Report to Smart Cities and Service Improvements Committee Fall 2020