

Today's Agenda

- (d) 1 – Smart City Roadmap Update
- (d) 2 – San José Food Distribution Update
- (d) 3 – Drive to Digital from Pandemic Response

Smart Cities and Service Improvements Committee
August 6, 2020

Kip Harkness, Deputy City Manager
Rajani Nair, Assistant to the City Manager

(d) 1 – Smart City Roadmap Update

Smart Cities and Service Improvements Committee

August 6, 2020

Rajani Nair, Assistant to the City Manager, Civic Innovation

Prioritized Smart City Roadmap 2.0

February 2020

User-Friendly Government	Development Services Transformation	Privacy Strategy	My San Jose	Digital Services Strategy	Data Strategy	Start Up in Residence (STIR) program		
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	Building Energy Usage Monitoring	Facebook Terragraph Wi-Fi	AT&T Community Wi-Fi at Community Centers/Parks		
Safe City	Safe City Strategy	FirstNet Deployment	Silicon Valley Regional Communication System	911/311 Transition	Fire Station Alerting System	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	Advanced Cybersecurity Products and Service RFP	Business Process Automation	Tech Deployment Improvements	
Equity	Digital Inclusion Program Fund	Community Wi-Fi Strategy	Rent Registry (Apartment Rent Ordinance)	Access Eastside	DAHLIA Affordable Housing Portal	AT&T Tech for Good Pilot	Verizon STEM	
Climate Smart	Electric Mobility Strategy & Roadmap	Greenhouse Climate Smart Engagement	Residential Housing Natural Gas Elimination Roadmap					

Legend | Project Status

- On Track
- Issues with Schedule, Budget, or Scope
- At Risk, Corrective Actions Needed
- On Hold

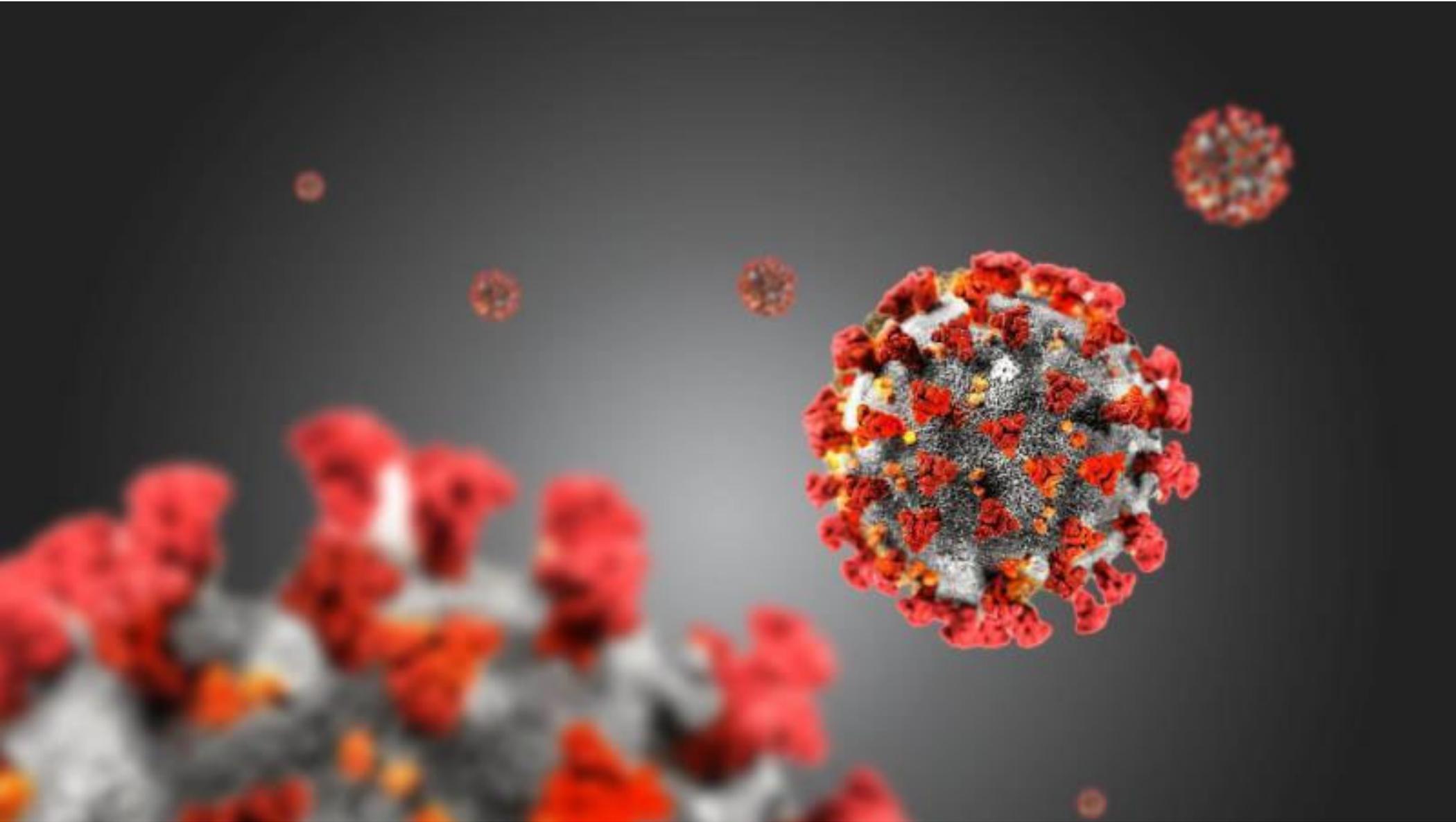
Higher
←
→
 Relative Priority of Projects
←
→
 Lower

SMALL WONDERS/UNLEASH YOUR GEEK – FEBRUARY 2020

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	
	Traffic Signal Optimization	
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

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Victory List

Digital
Inclusion/Broad
band Strategy

Broadband
Telecommunication
Agreements

Fire Alert
System

Police
Dashboard

Community
Engagement
through Data

Central
Emergency
Vehicle
Pre-emption

Rent Registry
(Apartment
Rent
Ordinance)

Cybersecurity
Policy

AV pilot
projects

Radar Sensor
Module

Vehicle Fleet
Telematics

My San Jose

IoT Strategy

EOC Damage
Assessment
GIS tools and
capabilities

City Website

HR Talent
Recruitment

IT Roadmap
Brilliant at
the Basics

Joint/School
Issued Library
Cards

Climate
Smart
Dashboard

Gas Emissions
Report and
Dashboard

Silicon Valley
Regional
Communication
System

Spatial Data
Integration
(SDI)

Irrigation
Sensor
Connectivity -
CalSense

Fire
Department
Business
Intelligence

Products
Management-
Projects
Execution

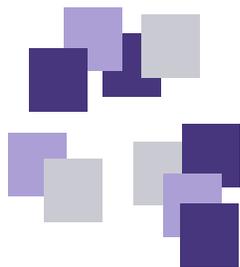
Business Tax
Amnesty
Solution

IT Staff Skill-
Up and
Engagement

Rebuilding the Smart City Roadmap 3.0 in response to COVID-19 - 4 Steps...

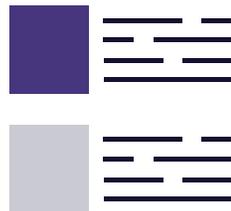
1. Brainstorm

Build a refined list of existing Big Rock, Small Wonders and ITD Roadmap Projects to be reprioritized.



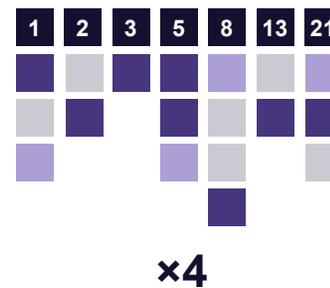
2. Attributes

Understand how we assess community value, opportunity enablement / risk mitigation, time criticality, and job duration



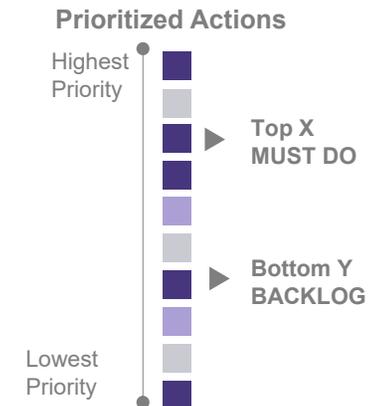
3. Scoring

Collectively score each project across the four attributes: community value, opportunity enablement / risk mitigation, time criticality, and job duration



4. Prioritization

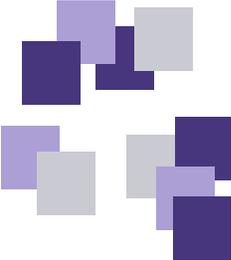
Establish relative prioritization of collective projects based on the results of scoring (using WSJF). Debate and refine, and determine path forward.



Rebuilding the Smart City Roadmap 3.0 in response to COVID-19 - 4 Steps...

1. Brainstorm

Build a refined list of existing Big Rock, Small Wonders and ITD Roadmap Projects to be reprioritized.



Rebuilding the Smart City Roadmap 3.0 in response to COVID-19 - 4 Steps...

Attributes and Descriptions

2. Attributes

Understand how we assess community value, opportunity enablement / risk mitigation, time criticality, and job duration



Community Value

- What is the relative value to the community and how does it contribute to response?
- What is the community impact of this project?
- What is the magnitude of impact/change, number of people impacted, and change to the efficiency or effectiveness of service?

Opportunity Enablement / Risk Mitigation

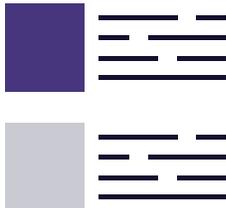
- Does this initiative pave the way for others which need this to come first?
- Would failure to complete open the community up to risk for human, material, economic, or environmental losses?
- How likely is not completing the initiative to cause litigation against the organization?

Time Criticality

- How important is it that this initiative gets done quickly?
- Is there a fixed deadline? Are there milestones on the critical path impacted by this?
- What is the current effect on the community if we do not complete the initiative? Will they wait for us or move to another solution?

Job Duration

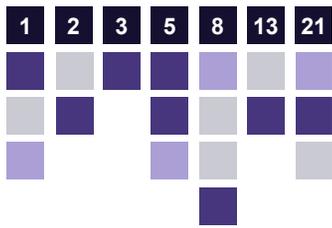
- What would you do in the first week?
- How long will the initiative take to execute? How complex and how many unknowns does the initiative have?
- How many dependencies are outside of our control?
- How controversial is the initiative?



Rebuilding the Smart City Roadmap 3.0 in response to COVID-19 - 4 Steps...

3. Scoring

Collectively score each project across the four attributes: community value, opportunity enablement / risk mitigation, time criticality, and job duration



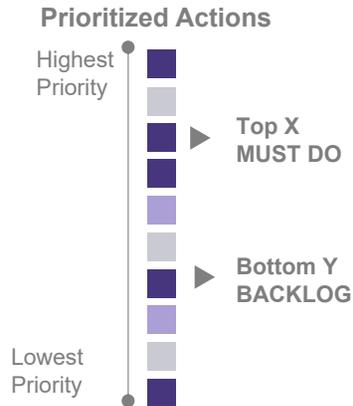
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Rebuilding the Smart City Roadmap 3.0 in response to COVID-19 - 4 Steps...

4. Prioritization

Establish relative prioritization of collective projects based on the results of scoring (using WSJF). Debate and refine, and determine path forward.



WSJF Project List	Community Impact	Opportunity/Risk	Time Criticality	Value	Job Duration	WSJF
32. Access Eastside	13	21	21	55	2	27.5
11. Small Cell Permitting Deployment and Process Improvements	21	8	13	42	2	21.0
16. Community Wi-Fi at Libraries and Community Centers/Parks	8	8	21	37	2	18.5
47. SJ Access Hotspot Distribution Program with AT&T	13	21	21	55	3	18.3
28. Business Process Automation	8	13	13	34	2	17.0
24. IT Infrastructure Modernization	8	13	21	42	3	14.0
48. Website and Employee Portals	21	5	8	34	3	11.3
7. Transportation Events Tracking (E-tracker)	13	8	8	29	3	9.7
38. Multilingual Emergency Management Tools	8	13	8	29	3	9.7
50. GIS Strategic Plan	2	5	2	9	1	9.0
14. Building Energy Usage Monitoring	1	5	2	8	1	8.0
30. Digital Inclusion Program Fund	5	21	30	56	8	7.0
18. FirstNet Deployment	8	13	13	34	5	6.8
5. Data Strategy	3	5	5	13	2	6.5
2. Privacy Strategy	3	21	8	32	5	6.4
43. Transportation Data Platform	5	8	3	16	3	5.3
3. San Jose 311	13	5	8	26	5	5.2
12. LED Smart Controllers	5	5	5	15	3	5.0
1. Development Services Transformation	13	13	13	39	8	4.9
26. Business Tax System	5	8	13	26	8	3.3
39. Real-Time Interpretation Tools for Limited and non-English Speakers	8	5	3	16	5	3.2
49. Cybersecurity	5	21	13	39	13	3.0

Prioritized Smart City Roadmap 2.0

February 2020

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Higher Relative Priority of Projects Lower

Smart City Roadmap 3.0

Response to COVID-19

August 2020

User-Friendly Government	Development Services Transformation	Privacy Strategy	San Jose 311	Digital Services Strategy	Data Strategy	Start Up in Residence (STIR) program	GIS Strategic Plan			
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Equity	Digital Inclusion Program Fund	Community Wi-Fi Strategy	Rent Registry (Apartment Rent Ordinance)	Access Eastside	Community Wifi at Libraries and Community Centers/Parks	SJ Access Hotspots Distribution with ATT	Affordable Housing Web Portal	AT&T Tech for Good Pilot	Verizon STEM	
Climate Smart	Electric Mobility Strategy & Roadmap	Greenhouse Climate Smart Engagement	Residential Housing Natural Gas Elimination Roadmap							
Small Wonders	Multilingual Emergency Management Tools	Transportation Data Platform	Real-Time Interpretation for Limited/ non-English Speakers	Traffic Signal Optimization	Unmanned Aerial System (UAS) for Emergency Response	Housing Voucher Tenant Discrimination Detection and Reporting	Multilingual Technology for Recycling Behavior Change			

- ★ Completed Projects
- Pilots Scaled And Converged With Existing Projects
- Prioritized Projects
- New Projects Post Covid-19

Higher ————— Relative Priority of Projects —————> Lower

Smart City Roadmap 3.0

Response to COVID-19

August 2020

User-Friendly Government	Development Services Transformation	Privacy Strategy	San Jose 311/911/311 Transition	Data Strategy	GIS Strategic Plan
Smart Mobility	Transportation Events Tracking (E-tracker)/ Verizon Traffic Data Services				
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Climate Smart					
Small Wonders	Multilingual Emergency Management Tools	Transportation Data Platform	Real-Time Interpretation for Limited/ non-English Speakers		

 Prioritized Projects

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