MAYOR AND COUNCIL PUBLIC MEETING NOTICE SPECIAL MEETING - AUGUST 22, 2023 AT 4:00 PM



MINUTES

The City of Douglas Mayor and Council met in a Special Meeting on Wednesday, August 22, 2023, at 4:00 p.m., at City Hall Council Chamber, 425 10th Street. The Honorable Mayor Huish called the meeting to order.

1. CALL TO ORDER. 4:00 p.m.

2. ROLL CALL.

	PRESENT	<u>ABSENT</u>
MAYOR, DONALD C. HUISH	X	
MAYOR PRO TEMPORE, MARGARET MORALES	X	
COUNCILMEMBER, MITCH LINDEMANN	X	
COUNCILMEMBER, DANYA ACOSTA	X (4:28 P.M.)	
COUNCILMEMBER, RAY SHELTON	Х	
COUNCILMEMBER, MICHAEL BALDENEGRO	Х	
COUNCILMEMBER, JOSE GRIJALVA	Х	
CITY MANAGER, ANA URQUIJO	Х	
CITY ATTORNEY, TINA VANNUCCI	Х	
CITY TREASURER, LUIS PEDROZA	Х	
CITY CLERK, ALMA ANDRADE	Х	

3. PERSONS WISHING TO ADDRESS THE COUNCIL IN WRITING OR VERBALLY ON ANY ITEM NOT ON THE AGENDA.

Ms. Andrade stated no public participation forms were submitted.

- 4. PRESENTATION/DISCUSSION.
 - A. PRESENTATION by NATIVE NETWORKS on TELECOMMUNICATIONS ROADMAP STUDY.

Ms. Urquijo presented background.

Andrew Metcalfe and Rebecca Carter presented the Telecommunications Roadmap Study.





Project Context

Native Network

- Founded by telecommunications veteran Andrew Metcalfe in 2015 and works with rural municipalities and Tribes to help them accomplish their telecom priorities.
- · Due to its telecommunications activity in the State of Arizona and work with a Native American Tribe in Tucson, Native Network became aware of Douglas's telecommunications goals.

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Andrew Metcalfe - Chief Engineer

· Jenny Rickel - Sr. Financial Analyst · Carl Patterson - Graphic Designer

Rebecca Carter - Program Manager

Erik Kloslewski - Telecom Engineer

Dustin Sayre - Network Engineer

Project Purpose

- · Goal of the Telecommunications Roadmap
- · Smart City Plan



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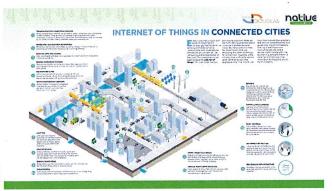
What is a Smart City?

A community sphere that employs digital technologies and data-driven solutions to enhance its residents' life quality, improve sustainability, and optimize resource management. Smart Cities aim to create more connected, efficient, and habitable spaces by integrating various sectors and harnessing innovative technologies.

Key Characteristics:

Smart cities' key characteristics are infrastructure and connectivity, data-driven decision making, sustainable development, and citizen engagement and participation







Project Structure



Infrastructure



Telecommunications Roadmap

Information Sharing







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Phasing Overview

2 Phase 2: City-Wide

1 Phase 3: Annex-Regional

have includes the proposed and potentials identified by the Oty's management it where regional interests that are not not tidl emercial or targets but important to Examples are the transportation corridor crivity between the Cdy and Cochies Co



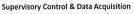
What is SCADA?





Key Technology Component

SCADA



- Monitor and Manage Critical Infrastructure
 Water (Potable)

 - Waste water · Smart city applications

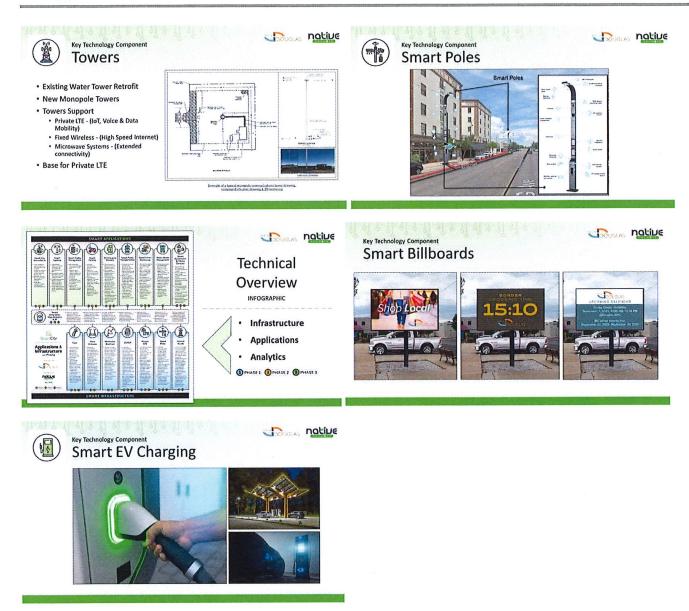
SCADA is the SmartCity Intelligence

- Aveva Software
- EcoStructure Hardware
- Unified Operations Center
 Artificial Intelligence (AI)









Council Member Lindemann expressed concern of the elderly population that does not have the technology devices needed. He also asked how schools, clinics and hospitals will be integrated to a smart city.

Mr. Metcalfe answered most people have smartphones now and the Wi-Fi systems, LT private and LTE system those can work you can have both your system and their current system and the service could be provided, the monitors in their homes run off the network you can you can offset that cost that is a medical service because the networks there are low cost devices that there is many of them that can sit in the home but the real expensive part of that system is the connectivity.

Ms. Urquijo added that essentially a program within our own notification systems or alert systems to issue phone calls for an evacuation or a fire in your area a phone call that is generated to a landlines.

Council Member Lindemann asked how will this be affected by power outages.

Mr. Metcalfe answered that on a wireless perspective the wireless network has generators that keep those systems running.



Council Member Grijalva asked if discussion has been held with APS on the stress with the power grid.

Mr. Metcalfe answered that they have not met with APS.

Council Member Baldenegro asked if the costs are fixed or expected to increase.

Ms. Carter answered prices change overtime due to inflation.

Council Member Baldenegro asked if the network is vulnerable, how secure is it.

Mr. Metcalfe answered it is a combination of fiber optic cables which are the most secure, buried in the ground and run the towers technology to that, there are vulnerabilities from an infrastructure sense, every system is vulnerable at some point, it depends on how diligent it is being maintained.

Council Member Shelton commented that there is a college, prison and school district here in Douglas.

Mr. Metcalfe commented in reference to the phasing in the Smart City plan they have spoken to college, prison and school system and when you look at the network phase one is the core, phase two is the city limits as the primary goal and the third phase is regional annexed areas.

Ms. Carter commented on the recommendation of a Smart City director position to be the facilitator of all things for this project and bringing everyone together or a third-party consultant filling that role to help inform and advise.

Council Member Acosta asked if this plan covers any upgrades.

Mr. Metcalfe answered that computers refresh faster because they are fast, the private LTE is built in to go from 4G which is similar to 4G to 5G and that is not a huge technological lift from the network side it is a software update. He added that the towers are the key, to have those towers in place and refresh that technology as you go forward.

Mayor Huish called for a 10-minute break.

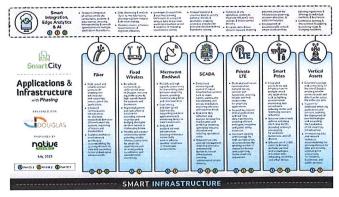
Mayor Huish called the meeting back in session at 5:36 p.m.

Council Member Morales inquired if they have worked with other cities that have implemented any of the Smart City.

Mr. Metcalfe answered they have worked with Santa Clara water district, and several tribal connections.

Ms. Carter reported that on the telecommunications roadmap document it specifically names and summarizes 10 to 15 cities and what they are doing, their size, there is a comparable cities report and analysis section in the telecommunications roadmap where cities can be looked up and more information if found on what they incorporated from the Smart City plan.

Mr. Metcalfe and Ms. Carter continued with presentation.







Smart City Financial Analysis

10 Year Financial Snapshot

HIGH LEVEL	PHASE 1	PHASE 2	PHASE 3	TOTAL BY TYPE
PHASE TIMELINE	2024-2026	2027-2029	2030-2033	
Capital Expenditure Totals*	\$4,596,934	\$9,367,172	\$8,207,958	\$21,823,165
Revenue Totals	\$371,800	\$941,700	\$2,429,600	\$3,743,100
Operating Expense Totals	\$337,920	\$1,456,625	\$3,292,128	\$5,086,673
NET INCOME:	\$33,880	(\$514,925)	(\$862,528)	(\$1,343,573)

• = Capital expenditures funded by pursued grants and funding.

The Gity will work to pursue outside funding sources and make decisions that balance additional phases in the future; those net incomes in the red are impacted by assumptions made in this version of the financial modeling and could change depending on other decisions and cost savings.

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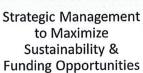
Smart City Foundation Alternative

PHASE ONE ALTERNATIVE PLAN	Foundation (Yr 1)	Optional (Yr 2)	Optional (Yr 3)	Total By Type
SCADA	\$1,629,296			\$1,629,286
Water Tower Improvements	\$152374	\$180,000		\$362,374
New Towers				\$0
Fiber Network	5261.021			\$261.021
Microwave Backhaul	DEPARTMENT	\$47,652		\$47,652
Fixed Wireless	A CONTRACTOR OF THE PARTY OF TH	\$195.552		\$195.552
Private LTE	\$210,338	\$85,000		\$115.338
Smart Poles	\$125,324			\$175,324
Public Wi-Fi	THE RESIDENCE OF	\$22,667		\$22,667
Security Cameras aka City Surveillance			\$72.337	\$77.337
Smart Lighting		\$85,060		\$85,050
Traffic Management	a second and	\$129,375		\$129.375
EV Charging		Charles and the	\$231,032	\$231,032
Smart But Transportation System	(a) Cocoopación	\$72,500		\$72,500
Smart Waste Management				\$0
Smart Billboards		6348,900		\$348,900
Implementation Support	\$200,000	\$75,000	\$49,750	\$323,750
Core Hardware/Software	\$37,500	\$250.612	\$86,465	\$374.577
Totals	\$2,665,843	\$1,492,507	\$439.584	\$4,596,934

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Smart City Revenue Opportunities

		Phase 1		57.50	Phase 2			Phas	43		TOTALS
YEAR	2074	27725	2026	2027	2028	7525	2030	2081	2092	2033	10 Year
REVENUE											
Water Tower Space	\$0	\$56,400	\$86,400	\$86,400	\$86,400	594,400	\$86,400	\$86,400	\$86,400	\$55.400	\$777,600
New Yorker Space	\$0	50	\$0	50	\$192,000	\$192,000	\$192,000	\$192,000	\$192,000	\$192,000	\$1.157.000
Condylè	\$0	50	50	\$0	\$0	50	\$0	\$814,000	șe.	\$0	\$214,000
Smart Feles	\$0	50	50	50	50	50	\$26,000	\$78,000	\$26,000	\$26,900	\$104,000
Public WiFi	\$0	\$69,500	\$69,500	549,500	\$69,500	\$49,500	\$69,500	\$49,500	169,500	\$69,500	\$625,500
EVCharging	50	50	50	\$0	50	50	50	50	\$0	50	50
Land Leine (not recommended)	90	\$30,000	\$30,000	530,000	530,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$770,000
Total Gross Payorus	- 50	\$185,900	\$105,900	\$185,900	\$377,900	\$177,900	\$401,900	\$1,217,900	\$403,900	\$403,900	\$3,743,100
Total 10-Year Revenue Potential	\$3,743,100										



- Climate Resilience
- Community resilience



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Steps to Resilience

Framework



Funding

Organizations that could be potential targets for funding opportunities:

Department of Transportation (DOT)
Department of Homeland Security (DHS)/FEMA

Department of Energy (DOE)

Environmental Protection Agency (EPA)

More comprehensive list located in Roadmap - Page 153

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Key Benefits in Phase 1

Core Infrastructure:

- SCADA- Easier monitoring and improved alerting for water and wastewater systems, also provides a platform to integrate Smart City applications. Water management compliance.
- Water tower upgrades- Allows water towers to act as vertical assets, adding antennas and connecting with fiber or microwave radio. Improves service coverage, particularly to government buildings. Possible revenue-generating infrastructure
- Fiber- Gives fast and reliable fiber connections to G Avenue downtown area
- Private LTE-Connects platforms and devices
- Smart Poles Provides opportunities to integrate various Smart City applications

Key Benefits in Phase 1



- Public WiFi- Allows citizens and visitors alike to access WiFi in the downtown area. Possible revenuegenerating application
- Smart Lighting- Improves energy efficiency and safety
- EV Charging- Supports electric vehicle use
- Smart Billboards- Improve communication with citizens and visitors, provides information equity to those who do not utilize technology
- Smart Waste Management-Improves waste management and waste fleet management efficiencies, lowering costs for the City
- Smart Surveillance- Increases security and safety and reduces crime
- Smart Traffic Management-Improves traffic efficiencies, reducing congestion and wait times





	TIMEFRAME	ACTIONITEMS				
Next	Within 30 days:	Circulate the Telecom Roadmap to all key stakeholders for review.				
Within 100 days: Within 120 Days: Within 180 days: Within 1 year:	Within 60 days:	Provide a formal opportunity for key stall-holders to ask questions about the Telecom Roudinap Establish members of the Smart Committee Propie and publish SCADA Request For Edd gift 5) Propie and publish SCADA Request For Edd gift 5)				
	Here Smart City Director (as inflarite) and party) Held to destinecting of the Smart City Plan Committee Create guidalities for Smart City Plan Committee Create guidalities for Smart City Plan Fully und SCADA project beginns of 15MJ with excessing allocation and uncommitted remaining ARPA fund Subsets SCADA arranged people. 51 SMJ with excessing allocation and uncommitted remaining ARPA fund Subsets SCADA arranged people.					
	Within 180 days:	 Start even SCADA deplayment Nebid a Smart CP Plan workshop to Smart City Plan Committee members (sun be fabilitated by a 3-d party). Nebid a Smart CP Plan workshop to Smart Committee of the Smart Plan of the Smart Annual Plan of the Smart Committee of the Smart Committee of the Smart CP Plan Committee of the Smart Plan of the Smart Committee of the				
	Within 1 year:	A Aprice stitud Smix Cby Plan Classia a Funding Pickulates Tool Startilly and distriment here to measure PTIs pay performance indicators; for the Plan Integrate Telecome Bookstage recommendations into dry governance and into planning and design for existing projects Computed on ordering handing Urt and apply for funding opportunities for each strategic pricety in the Sma				

Council Member Grijalva asked what the cost for smart city director position be like.

Ms. Carter answered that it depends on the size of the city, but looking at some range around \$80,000 to \$100,000 range.

Council Member Acosta asked on the reason why a land lease is not recommended.

Mr. Metcalfe answered it is recommended that towers are built instead of leasing the land, if a tower is built revenue opportunities are incremental, if you lease land it is one time.

Council Member Acosta commented that the booklet presented is confidential for internal use only, but it is recommend circulating within 90 days. Ms. Acosta asked if it could be potentially published on the city's website for people to look over.

Mr. Metcalfe answered it is normally added there for protection, it could be reviewed and not release the whole report.

5. ADJOURNMENT.

Motion by Council Member Morales, second by Council Member Shelton to adjourn the meeting at 6:17 p.m.

Prepared by: Cyrithia Acuña Robles, Deputy City Clerk