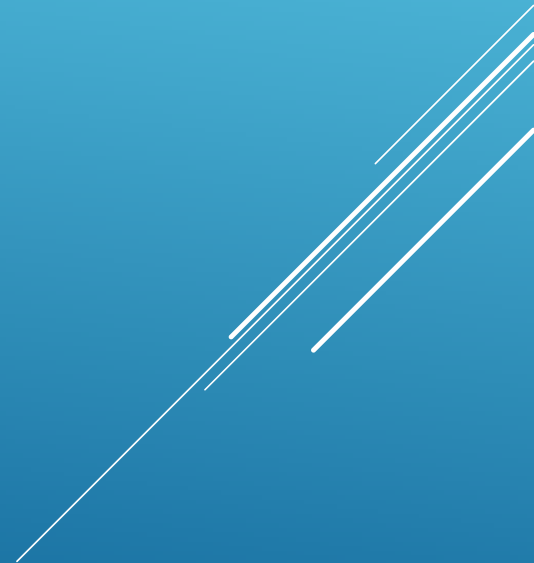


CITY OF HOOVER

IT STRATEGY AND PLAN UPDATE

06-03-2019



INTRODUCTION

FY 2017 & FY 2018: \$2,050,000 for upgrade to our IT infrastructure

Funded 8 phases of a 10 phase plan

Phases 9 & 10: to extend our network to a 3rd major site:

The Hoover Met Complex

FY 2017: Engaged Brunson White to comprehensively assess our IT function and provide a roadmap for the future

BRUNSON WHITE BIOGRAPHY

- CIO OF A FORTUNE 1000 COMPANY FOR 20 YEARS
 - 39 YEARS OF EXPERIENCE IN INDUSTRY AND GOVERNMENT
 - ESTABLISHED THE OFFICE OF INFORMATION TECHNOLOGY (OIT) FOR THE STATE OF ALABAMA AND SERVED AS THE FIRST CABINET MEMBER TO LEAD THAT ORGANIZATION
 - EXPERTISE IN PROCESS OPTIMIZATION, ORGANIZATIONAL DESIGN, AND INFORMATION TECHNOLOGY (IT) MANAGEMENT
 - NOW SERVES AS A CONSULTANT TO INDUSTRY AND GOVERNMENT ON IT STRATEGY
- 

3RD SITE CONNECTED TO FIBER NETWORK (HOOVER MET COMPLEX)

- ORIGINAL ESTIMATE
 - \$950,000
- MCI METRO/VERIZON FRANCHISE AGREEMENT AND SHADOW CONDUIT
 - Estimated 75% cost savings on shadow conduit
- WE DEFINED CITY OF HOOVER PRIORITIES
- PRIORITY 1 ALREADY FUNDED (MAINLY PSC TO CH)
- PRIORITY 2 (MAINLY HWY 150 & STADIUM TRACE)
 - Estimated \$368,000

WHY? WHAT DOES DARK FIBER PROVIDE THE CITY?

- **DIRECTIONAL PATH REDUNDANCY**
 - MITIGATES EVENT AND OTHER SERVICE INTERRUPTIONS
- **DISASTER AVOIDANCE AND BUSINESS CONTINUITY**
 - 24/7 PUBLIC SAFETY OPERATIONS
 - ALTERNATIVE SITE LOCATION IF ANOTHER SITE BECOMES UNABLE TO BE OCCUPIED
- **POTENTIAL REDUCTION IN OPERATIONAL COSTS**
 - ESTIMATED TO BE OVER \$20,000 ANNUALLY
- **IMPROVEMENT IN SPEED AND LATENCY**
 - BANDWIDTH NEEDS WILL ONLY INCREASE
- **ENHANCEMENT OF TRAFFIC CONTROL SYSTEM**
 - JOINT USE OF CONDUIT FOR SAFETY AND EFFICIENCY IN TRAFFIC CONDITIONS
- **ABILITY TO CONNECT OTHER FUTURE FACILITIES**
 - FIRE STATIONS, PARKS, POLICE SUBSTATIONS, SCHOOLS
- **CONNECTIVITY BETWEEN ITS 3 MAIN PHYSICAL SITES**
 - MAINTAIN THE \$85+ MILLION INVESTMENT IN THE HOOVER MET COMPLEX

5G AND DARK FIBER

5G	Dark Fiber
Will not replace fiber	Fiber is the backbone to 5g and what makes it work
Is not readily available yet	Is available and at a large discount for conduit
Could have some device compatibility issues	We are already using fiber with our current equipment
	More secure and a non-shared path
	Decreases dependency on 3rd parties
Increases operational costs	Decreases operational costs (with capital expenditure)
	Proven technology that provides: Consistent high speed data paths Consistent low latency
	Generators can keep dark fiber running in the case of power outages
	A future proof investment: As bandwidth needs increase, and they will, fiber can scale up much easier Thus, its useful life is many years to come and puts Hoover in a great position
Will work well for edge/endpoint connectivity	Preferred for our interior network connectivity Datacenters are located in the interior and/or basement of facilities

RESULT: 5G and Dark Fiber complement each other

SUMMARY

- STRONGLY RECOMMEND FUNDING
 - PRIORITY 2 AND PRIORITY 3 AREAS
 - 1 TIME OPPORTUNITY
 - AT THIS REDUCED COST
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

SUMMARY

