Project Name: Board of Commissioners Reapportionment Project ID:DJ0511OP

Leadership	Group: Fina	ance/Admin								
Departmen	t: Board of C	Commissioners	i	Division: BOC						
Project Spo	onsor: Patti D	Dib	Date Requested	d: 07/2/21	PM Custom	er No. 511				
Request Type: <u>New Development</u> Planned System Maint				hancement	Customer S	Support				
Planned System N		em Maintenance	e or Upgrade							
IT Team Na	me: eComme	erce		IT Team No: J						
Project Ma	nager/Leader	: Susan Moore	.							
Account Number:	17020	Account Description:	IT-Application	n Services	Customer Name:	Board of Commissioners				
Grant Fund	ed?	Yes <u>No</u>		ndate? Yes ndate Source:	<u>No</u>					

Project Goal

To implement a dedicated solution to be used by the County Apportionment Commission so that the Board of Commissioner boundaries can be redrawn efficiently and accurately using the 2020 US Census data.

Business Objective

To provide a solution for the County Apportionment Commission to efficiently and accurately redraw the Board of Commissioner boundaries using 2020 US Census data.

To provide 2 to 3 web-based applications for the public to view the proposed Board of Commissioner boundaries.

Major Deliverables

- Detailed Project Plan
- Software Procurement
- Application Requirements
- Web-based GIS applications
- End User Software Documentation
- Training Plan
- Training/User Manual(s)

Approach

- Develop Detailed Project Plan
- Order software

Project Name: Board of Commissioners Reapportionment Project ID:DJ0511OP

- Develop Implementation Plan
- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Develop User Documentation
- Train users on new system
- Release new applications into production

Research & Analysis

Gartner Research Recommendation

Research Conducted – Nothing Found.

Benefits

See Return on Investment (ROI) Analysis Document

<u>Impact</u>

Number of Users 10

Divisions Board of Commissioners

Leadership Groups Finance/Admin

<u>Risk</u>

Business Environment Low – little or no impact to existing business processes.

Technical Environment Medium – previously implemented technologies, new

requirements.

Assumptions

Staffing IT Staffing: resources will be available for the hours indicated per the attached

project plan.

Other Staffing: additional staffing will be available as follows:

Role: Name Hours per Day

Project Sponsor: Patti Dib As Needed

Project Name: Board of Commissioners Reapportionment Project ID:DJ0511OP

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Technical

- No hardware will need to be purchased for this process.
- The software solution for the Ad Hoc Reapportionment Committee has been selected prior to this project starting. The software is only needed for a single year.
- 7 licenses of the software solution will be needed.
- The public will not have the ability to draw their own boundaries using County-provided software.

Funding

• The Charge Code on the project is an IT charge code, though the project is a BOC project. This is because the funds for the project will be transferred from the General Fund to the IT budget, per the June 30th full Board meeting (MR #21286).

Other

•

Priority

Constraints

- •
- •

Exclusions

- •
- •

Project Name: Board of Commissioners Reapportionment Project ID:DJ0511OP

PROJECT PHASE AUTHORIZATION

FROJECT FILAGE AC	THORIZATION		
Phase(s): All phases			
Total Estimated Application Services	Hours:		
Total Estimated Technical Systems	Hours:		
Total Estimated CLEMIS	Hours:		
Total Estimated Internal Services	Hours:		
IT Application Services Division Manager Approval:			Date:
IT Technical Systems Division Manager Approval:			Date:
IT CLEMIS Division Manager Approval:			Date:
IT Internal Services Division Manager Approval:			Date:
IT Management Approval:			
Approved: Yes	No		Date:
Reason:			
Project Sponsor Approval:			
Title:			Date:
PROJECT SU	MMARY		
Authorized Development (see above)	Hours:		
Preliminary Estimated Development for Future Phases	Hours:		
Grand Total Estimated Development	Hours:	Cost:	

Project Name: Board of Commissioners Reapportionment Project ID:DJ0511OP

PROJECT COMPLETION AUTHORIZATION

Customer Acceptance of Product:	
Title:	Date:
Project Office Review:	Date:

Board of Commissioners Reapportionment - Size Estimate (+/- 10% to 50%)

1 Type	ID	Task Name	Estimated
2			Hours
3 3	000000	PROJECT MANAGEMENT	123
⁴ Phase	100000	DEVELOP RFP & SELECT VENDOR	21
5 Phase	200000	DEFINE BUSINESS REQUIREMENTS	33
6 Phase	400000	IMPLEMENT VENDOR APPLICATION	162
7 Phase	500000	IMPLEMENTATION PHASE	35
8 Phase	600000	POST IMPLEMENTATION SUPPORT	11
9			385

Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	0	0	0	0	0	0	0
Costs:							
Development Services Subtotal:	63,525	0	0	0	0	0	63,525
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	31,500	0	0	0	0	0	31,500
Infrastructure Subtotal	0	0	0	0	0	0	0
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	0	0	0	0	0	0	0
Annual Statistics:							
Annual Total Savings	0	0	0	0	0	0	0
Annual Total Costs	95,025	0	0	0	0	0	95,025
Annual Return on Investment	(95,025)						(95,025)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	(00,020)
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	95,025	95,025	95,025	95,025	95,025	95,025	95,025
Cumulative Return on Investment	(95,025)	(95,025)	(95,025)	(95,025)	(95,025)	(95,025)	(95,025)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Veer Desitive Devised Askieved							NO PAYBACK
Year Positive Payback Achieved State or Federal Mandate?							NO PATBACK
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By							
Information Technology Project Manager				Date:			

Return on Investment Analysis

Savings Detail

	Project Savings		Unit		Rate per		Annual
Benefit/Savings Description	Category	Budget Category/Funding Source	Desc	Units	Unit	Total Savings	Multiplier
	'						
Simplify redistricting process for the							
County Reapportionment Commission	Intangible Benefit					0	
Reports generated by selected software							
will help ensure all legal requirements							
are met, helping to protect the integrity							
of the process.	Intangible Benefit					0	
Public transparency is improved by						_	
providing plans on a public web site.	Intangible Benefit					0	
Reapportionment is a State mandated							
requirement.	Intangible Benefit					0	
	-					0	
						0	
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						0	

Return on Investment Analysis

Savings Detail

		Af	fect	s Pr	ojec	t R0	OI?		Po	tential Savi	ngs Extensio	ons	
Benefit/Savings Description	Project Savings Category	Y1	Y2	Y3	Y 4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
					!	<u> </u>	!					!	
Simplify redistricting process for the							į				1		
County Reapportionment Commission	Intangible Benefit				<u> </u>	ļ	!						
Reports generated by selected software					İ		į		: :		•	į	
will help ensure all legal requirements					ĺ	ĺ	ĺ		i	i i		į	
are met, helping to protect the integrity	latan albia Dan efit				ļ	1	ļ		! ! !	! ! !	1	•	
of the process.	Intangible Benefit				<u> </u>	<u> </u>	<u> </u>		<u> </u>			<u> </u>	
Public transparency is improved by	latan alla Dan efit				İ	į	İ						
providing plans on a public web site.	Intangible Benefit		-	-	<u> </u>	<u> </u>	<u> </u>		i 	i 	<u> </u>	i 	
Reapportionment is a State mandated	latan albia Dan efit				į		į						
requirement.	Intangible Benefit					<u> </u>	<u> </u>					<u> </u>	
					ĺ	İ	<u> </u>				<u> </u>		
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Return on Investment Analysis

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
Tangible Benefits Subtotal:							
Cost Avoidance:							
						1	
Cost Avoidance Subtotal:							
Cost Avoidance Subtotal.							
Intangible Benefit:							
Simplify redistricting process for the County							
Reapportionment Commission							
Reapportionment Commission							
Reports generated by selected software will							
help ensure all legal requirements are met,							
helping to protect the integrity of the process.							
Public transparency is improved by providing							
plans on a public web site.							
Reapportionment is a State mandated							
requirement.							
Savings Total:							

Return on Investment Analysis

Cost Detail

								Affects Project ROI?						
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	Ĭ		1		Ī		
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Υ3	Y4	Y5	Y6	Y1
IT Hours - New Development	Development Svcs		HR	385	165	63,525		Х				į	į	63,525.00
IT Hours - System Maintenance	Development Svcs		HR		165	0		į		i		I		
IT Hours - Customer Support	Development Svcs		HR		165	0	1.010	į	Χ	Χ	Χ	Х	Χ	
IT Hours - Planned Maintenance	Development Svcs		HR		165	0	1.010	ŧ	Χ	Χ	Х	Х	Χ	
User Hours - New Development	Development Svcs					0		ĺ		:	Ì	Î	Î	
User Hours - PTNE/OT	Development Svcs					0		1		:		1		
Contractor Professional Services	Development Svcs					0		į		1	:	į	į	
PC System - Acquisition	Hardware				687	0		•		1	1	I	•	
PC System - Maintenance	Hardware				2,936	0		İ		i	•	İ		
Notebook - Acquisition	Hardware				1,115	0		Ī		i	į			
Notebook - Maintenance	Hardware				3,024	0		į		i		İ	•	
Tablet Notebook - Acquisition	Hardware				1,421	0		ĺ		i		Ì	Ì	
Tablet Notebook - Maintenance	Hardware				2,800	0		i		i	ĺ	l		
Laserprinter - Acquisition	Hardware				1,432	0		ĺ		:	ĺ	1	i	1
Laserprinter - Maintenance	Hardware				1,408	0		i		:		İ		
PC Maintenance User Owned	Hardware				2,720	0		i		ŀ	:	i	İ	1
Printer Maintenance User Owned	Hardware				1,264	0		Ī		i		İ		1
File Space (100GB)	Hardware		ANN		23	0		i		i	İ		İ	
Package Software - Acquisition	Software		EA	7	4,500	31,500		Χ		i	!	1		31,500.00
Package Software - Maintenance	Software		EA			0	1.010	i	Χ	Χ	Χ	Х	Χ	
Business Objects Access	Software					0		i		:		1		1
Term Emulation SFTW-Acquisition	Software					0		i		1	i	i	İ	
Term Emulation SFTW-Maintenance	Software					0		i		i	1	İ		
Server - Acquisition/Upgrade	Infrastructure				8,000	0		į		į	Í	į	!	
Server - Maintenance	Infrastructure				360	0		i		i	ĺ			
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0		į		i	į	İ	İ	
Server Sftwre - Maintenance	Infrastructure					0		ĺ		:	ĺ	1	i	
Server Rack Mount	Infrastructure				400	0		i		:		1		1
Oracle Enterprise Software Purchase -								i		1	i	i	İ	1
Per Processor (4 Cores) - Requires								ŀ		i	1	l	!	1
Annual Support Below	Infrastructure				42,280	0				į	į	į		
Oracle Enterprise Software Support -					·			į			İ	1		
Per Processor (4 Cores)	Infrastructure				9,293	0	1.030			į	į	1		
SQL Server Enterprise Software					,	-		İ		į		1		
Purchase - Per Processor (4 cores) -										i	İ	İ		
Purchased Sept 2019-Aug 2020 -								li		ł	1	1		
Includes Support thru Aug 2022	Infrastructure				16,985	0			ļ	i	İ	1		i

Return on Investment Analysis

Cost Detail

								Af	fect	s Pro	iect l	ROI?	
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	 	i		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4 Y	5 Y6	Y1
SQL Server Enterprise Software									i			i	
Purchase - Per Processor (4 cores) -											ļ	-	
Purchased Sept 2020-Aug 2021 -									İ			- 1	
Includes Support thru Aug 2022	Infrastructure				12,724	0			į		į		
SQL Server Enterprise Software													
Purchase - Per Processor (4 cores) -											ł		
Purchased Sept 2021-Aug 2022 -									•	1	İ	ļ	
Includes Support thru Aug 2022	Infrastructure				8,463	0							
SQL Server Enterprise - Support, Per													
Processor (4 cores) - Sept 2022 and									•	•			
Beyond	Infrastructure				4,261	0			İ		İ		
SQL Server Standard Software													
Purchase - Per Processor (4 cores) -											ł		
Purchased Sept 2019-Aug 2020 -									•	1	İ	ļ	
Includes Support thru Aug 2022	Infrastructure				4,429	0							
SQL Server Standard Software													
Purchase - Per Processor (4 cores) -									į		į		
Purchased Sept 2020-Aug 2021 -									İ		İ	ĺ	
Includes Support thru Aug 2022	Infrastructure				3,317	0			•	1	İ	ļ	
SQL Server Standard Software													
Purchase - Per Processor (4 cores) -											İ		
Purchased Sept 2021-Aug 2022 -									İ			- 1	
Includes Support thru Aug 2022	Infrastructure				2,205	0			į		į		
SQL Server - Standard Support, Per											ĺ		
Processor (4 cores) - Sept 2022 and									İ				
Beyond	Infrastructure				1,112	0			ļ		ļ	!	
Websphere Basic Per Processor													
Single/Dual Core - Includes Year 1											İ		
Maintenance	Infrastructure				3,506	0							
Websphere Basic Per Processor											ļ		
	Infrastructure				701	0			<u> </u>		i_		
Websphere ND Per Processor								I	İ			İ	
Single/Dual Core - Includes Year 1									İ		İ	İ	
Maintenance	Infrastructure				13,180	0			<u> </u>	<u> </u>	<u> </u>	<u> </u>	

Return on Investment Analysis

Cost Detail

								Af	fects	Pro	ect	ROI?		
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				ĺ	İ		
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2 `	/3 \	/4 Y	5 Y6	Y1	
Websphere ND Per Processor														
•	Infrastructure				2,635	0				ı				
SSL Certificate	Infrastructure				845	0				Ť		i		
Internet Access	Infrastructure				180	0				- -	Ţ	-		
Imperva Web Application Firewall										Ť	Ť	1		
	Infrastructure		ANN		500	0				ĺ	- 1			
App Code Directories on Consolidated										I		i		
IIS Server (Virtual)	Infrastructure		ANN		415	0				į				
Dedicated Virtual Server	Infrastructure		ANN		4,150	0				Ī				
Extra Small - 2 Core 8GB RAM, 500GB														
Drive, 10 GB NIC - Cloud/Virtual = \$601										ı				
On Premise Physical Server = N/A	Infrastructure		ANN			0					_ [_	į		
										į	- [
Small - 4 Core 16GB RAM, 500GB										i				
Drive, 10 GB NIC - Cloud/Virtual = \$951						0				į	ı	i		
, , , , , ,	Infrastructure		ANN			0				<u> </u>		-		
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual =										į	- 1			
\$1,702 On Premise Physical Server =										į	ı	i		
•	Infrastructure		ANN			0				ł	- 1	-		
Large - 16 Core 64GB RAM, 500GB	iiiiasiiactare		7.1111			0			H	÷	-			
Drive, 10 GB NIC - Cloud/Virtual =										ı		i		
\$3,167 On Premise Physical Server =										ĺ	- 1	İ		
\$10,446	Infrastructure		ANN			0				ı				
Extra Large - 40 Core 160GB RAM,										T	T	i		
500GB Drive, 10 GB NIC - Cloud/Virtual														
= \$7,564 On Premise Physical Server =											- [
\$12,906	Infrastructure		ANN			0								

Return on Investment Analysis

Cost Detail

		Potential Cost Extensions					
	Project Cost						
Cost Description	Category	Y2	Y3	Y4	Y5	Y6	
IT Hours - New Development	Development Svcs	i	į	į			
IT Hours - System Maintenance	Development Svcs			į	į.		
IT Hours - Customer Support	Development Svcs	0.00	0.00	0.00	0.00	0.00	
IT Hours - Planned Maintenance	Development Svcs	0.00	0.00	0.00	0.00	0.00	
User Hours - New Development	Development Svcs		İ	Î			
User Hours - PTNE/OT	Development Svcs		į				
Contractor Professional Services	Development Svcs		į	i	İ		
PC System - Acquisition	Hardware						
PC System - Maintenance	Hardware						
Notebook - Acquisition	Hardware		!	į	ļ		
Notebook - Maintenance	Hardware		-	-	İ		
Tablet Notebook - Acquisition	Hardware		i	1			
Tablet Notebook - Maintenance	Hardware		İ				
Laserprinter - Acquisition	Hardware			İ	İ		
Laserprinter - Maintenance	Hardware		1	i	ļ		
PC Maintenance User Owned	Hardware						
Printer Maintenance User Owned	Hardware						
File Space (100GB)	Hardware						
Package Software - Acquisition	Software		Î	1	•		
Package Software - Maintenance	Software	0.00	0.00	0.00	0.00	0.00	
Business Objects Access	Software				İ		
Term Emulation SFTW-Acquisition	Software		1	i	ļ		
Term Emulation SFTW-Maintenance	Software						
Server - Acquisition/Upgrade	Infrastructure						
Server - Maintenance	Infrastructure			İ	İ		
Server Sftwre - Acquisition/Upgrade	Infrastructure		1	1	-		
Server Sftwre - Maintenance	Infrastructure			İ	İ		
Server Rack Mount	Infrastructure		į.	İ	ļ		
Oracle Enterprise Software Purchase -			İ				
Per Processor (4 Cores) - Requires			į	į.			
Annual Support Below	Infrastructure			1			
Oracle Enterprise Software Support -				į	İ		
Per Processor (4 Cores)	Infrastructure	į	ļ	į	į		
SQL Server Enterprise Software		i	İ	į	İ		
Purchase - Per Processor (4 cores) -				Ì	İ		
Purchased Sept 2019-Aug 2020 -		ļ		į	į.		
Includes Support thru Aug 2022	Infrastructure		ļ	ļ			

Return on Investment Analysis

Cost Detail

		P				
	Project Cost					
Cost Description	Category	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise Software						
Purchase - Per Processor (4 cores) -						
Purchased Sept 2020-Aug 2021 -			İ			
Includes Support thru Aug 2022	Infrastructure					
SQL Server Enterprise Software						
Purchase - Per Processor (4 cores) -						
Purchased Sept 2021-Aug 2022 -						
Includes Support thru Aug 2022	Infrastructure					
SQL Server Enterprise - Support, Per						
Processor (4 cores) - Sept 2022 and			İ			
Beyond	Infrastructure					
SQL Server Standard Software						
Purchase - Per Processor (4 cores) -						
Purchased Sept 2019-Aug 2020 -						
Includes Support thru Aug 2022	Infrastructure					
SQL Server Standard Software						
Purchase - Per Processor (4 cores) -			İ			
Purchased Sept 2020-Aug 2021 -			İ			
Includes Support thru Aug 2022	Infrastructure					
SQL Server Standard Software						
Purchase - Per Processor (4 cores) -						
Purchased Sept 2021-Aug 2022 -						
Includes Support thru Aug 2022	Infrastructure					
SQL Server - Standard Support, Per						
Processor (4 cores) - Sept 2022 and						
Beyond	Infrastructure					
Websphere Basic Per Processor						
Single/Dual Core - Includes Year 1						
Maintenance	Infrastructure					
Websphere Basic Per Processor						
Single/Dual Core - Year 2 and Beyond	Infrastructure		<u> </u>			
Websphere ND Per Processor						
Single/Dual Core - Includes Year 1			•			
Maintenance	Infrastructure		<u> </u>			

Return on Investment Analysis

Cost Detail

		P	otential Cos	t Extensions						
Cost Description	Project Cost Category	Y2	Y3	Y4	Y5	Y6				
Walandara ND Day Duana			i i		i I I	i I I				
Websphere ND Per Processor			ļ	İ						
Single/Dual Core - Year 2 and Beyond	Infrastructure		1	i 						
SSL Certificate	Infrastructure		ļ	<u> </u>	 	 				
Internet Access	Infrastructure			1						
Imperva Web Application Firewall				<u> </u>	! ! !	! ! !				
(External Web Applications Only)	Infrastructure			<u> </u>	! !	! !				
App Code Directories on Consolidated					I I I	I I I				
IIS Server (Virtual)	Infrastructure			! !	! ! !	! ! !				
Dedicated Virtual Server	Infrastructure		<u> </u>	<u></u>	<u> </u>					
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = N/A	Infrastructure									
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$9,288	Infrastructure									
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$9,751	Infrastructure									
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,446	Infrastructure									
Extra Large - 40 Core 160GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$12,906	Infrastructure									

Return on Investment Analysis

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	63,525						63,525
IT Hours - System Maintenance							
IT Hours - Customer Support IT Hours - Planned Maintenance		0	0	0	0	0	
IT Hours - Planned Maintenance		0	0	0	0	0	
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	63,525						63,525
Hardware:							
Hardware Subtotal:							
Software:							
Package Software - Acquisition	31,500						31,500
Package Software - Maintenance	·	0	0	0	0	0	
Software Subtotal:	31,500						31,500
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	95,025						95,025

Date: 07/2/2021

Return on Investment Analysis

Assumptions

Date	Assumption Description
7/2/2021	No new infrastructure will be required. No new databases or servers required.
7/2/2021	Software purchased will be the Esri Online Resdistricting Solution (\$4,500/named user)
	Only 5 Commissioners will actually be working within the software, plus 1 license for ROD staff, and 1 license for IT staff for a total of \$31,500 in
7/2/2021	licensing costs.
	License is an annual fee.
	License is only needed for one year (rolling 12-month period).
	Any web pages created to share new maps/apps will be created by either the BOC or Register of Deeds public website content editor.
	The public will not be drawing their own proposed districts using any Oakland County-purchased software.
	Only County employees will require a license for the software
	No Request for Proposal (RFP) will be required to procure the software
7/2/2021	The users will not need new/different hardware for this process.

Page 12 REV: March 27, 2020