Project Name: Mobile Assessment Data Collection Project ID: D91125DC

Leadership Group: Land	I				
Department: Equalization	า		Division: Man	agement & Budo	get
Project Sponsor: David	Hieber	Date Reque	sted: 3/9/20	PM Custon	ner No. 125
Request Type:	New Develop	oment X	Enhancem	ent Cu	ustomer Support
	Planned Sys	tem Mainten	ance or Upgrade		
IT Team Name: Assessin	g and Taxation	l	IT Team No: 9		
Project Manager/Leader	: Wendy Conkl	in			
Account Number: 31075	Account Description:	Equal – [Development	Customer Name:	Equalization
Grant Funded? Yes	No X		Mandate?	Yes	No X
			Mandate Source:		

Project Goal

To integrate mobile devices with BSA assessment data collection software for the Equalization contracted appraisal units so that field appraising can be completed at the property site electronically, saving time with data input, reduce errors and improving accuracy with parcel sketching projects.

Business Objective

To save time in the field with having electronic devices to collect data electronically instead of recording the information on a record card and bringing back to the office for data entry. To eliminate the errors and the duplication of sketching in the field by the appraiser and then again once entered in the CAMA system by the clerical staff. To take on more contracted units because it will take less time to do mini appraisals.

Major Deliverables

- Detailed Project Plan
- Application and/or System Requirements
- End User Hardware and Software Requirements Document
- Technical Design Document
- Technical Architecture Diagram
- Training Plan
- User Acceptance Test Plan
- Implementation Plan
- Training/User Manual(s)
- Application Code
- Disaster Recovery Toolkit
- Service Center Knowledge Documents

Project Name: Mobile Assessment Data Collection Project ID: D91125DC

Approach

- Develop Detailed Project Plan
- Review current business process and conduct needs assessment with customer, ensuring current manual processes are refined and automated.
- Document system requirements
- Determine and document system architecture and diagram
- Assess User Hardware and Software Requirements
- Conduct Tech Review
- Order hardware and software if needed
- Develop Implementation Plan
- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Research & Analysis

Gartner Research Recommendation - Research yielded no results

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 71

Divisions Equalization

Leadership Groups Land

Project Name: Mobile Assessment Data Collection Project ID: D91125DC

Risk

Business Environment High - Project will dramatically change existing business

processes or will negatively affect the business environment if

implementation is unsuccessful.

Technical Environment Medium - Previously implemented technologies with new aspects

and/or new requirements.

Assumptions

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

project plan.

Equalization Staffing: clerical and appraiser staff will be available as needed.

Role: Name Hours per Day

Project Sponsor: Dave Hieber 6:30am – 3:00pm

Facilities

N/A

Technical

 The BS&A Appraisal software would be used for source assessing data. Integration with BSA either by API or exports and imports

Funding

Information Technology

Other

 The vendor Pivot Point will be contracted by BSA to be the field data collection vendor for the Assessing Software.

Priority

TBD

Project Name: Mobile Assessment Data Collection Project ID: D91125DC

Constraints

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Exclusions

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Project Name: Mobile Assessment Data Collection Project ID: D91125DC

PROJECT PHASE AUTHORIZATION

Phase(s): All		
Total Estimated Application Services	Hours: 721	
Total Estimated Technical Systems	Hours: 60	
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 SUMMARY

Authorized Development (see above)	Hours: 781	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 781	Cost : 128,865

Project Name: Mobile Assessment Data Collection Project ID: D91125DC

PROJECT COMPLETION AUTHORIZATION

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

Mobile Assessment Data Collection - Size Estimate (+/- 10% to 50%)

1	Туре	ID	Task Name	Estimated
2				Hours
3	3	000000	PROJECT MANAGEMENT	282
4	Phase	100000	REVIEW VENDOR BUSINESS REQUIREMENTS	66
5	Phase	300000	DESIGN SYSTEM ARCHITECTURE	71
6	Phase	400000	IMPLEMENT VENDOR APPLICATION	276
7	Phase	500000	IMPLEMENTATION PHASE	68
8	Phase	600000	POST IMPLEMENTATION SUPPORT	18
9				781

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:	157,740	159,317	160,911	162,520	164,145	165,786	970,419
Costs:							
Development Services Subtotal:	128,865	19,998	20,198	20,400	20,604	20,810	230,875
Hardware Subtotal:	12,600	6,480	6,480	6,480	6,480	6,480	45,000
Software Subtotal:	82,438	64,759	65,407	66,061	66,722	67,389	412,776
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	157,740	159,317	160,911	162,520	164,145	165,786	970,419
Annual Total Costs	223,903	91,237	92,085	92,941	93,806	94,679	688,651
Annual Return on Investment	(66,163)	68,080	68,826	69,579	70,339	71,107	281,768
Annual Costs/Savings Ratio	141.94%	57.27%	57.23%	57.19%	57.15%	57.11%	
Project Cumulative Statistics:							
Cumulative Total Savings	157,740	317,057	477,968	640,488	804,633	970,419	970,419
Cumulative Total Costs	223,903	315,140	407,225	500,166	593,972	688,651	688,651
Cumulative Return on Investment	(66,163)	1,917	70,743	140,321	210,661	281,768	281,768
Cumulative Cost/Savings Ratio	141.94%	99.40%	85.20%	78.09%	73.82%	70.96%	70.96%
Year Positive Payback Achieved		Year 2					Year 2
State or Federal Mandate?		10012					rour 2
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By Information Technology Project Manager				Date:			
<u> </u>							

Return on Investment Analysis

Savings Detail

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Bonona Gavingo Boson palon	- Guiogoi y	Budget Gategory/1 analing Gource	1	Office	Onic	Total Cavingo	manaphor
Reduce the amount of time Equalization							
staff will spend to redraw sketches	Cost Avoidance		ANN	1,536	44	67,584	1.010
'				,		, , , , ,	
Reduce the amount of time Equalization							
clerical will spend to enter data into the							
BSA Assessment system.	Cost Avoidance		ANN	2,049	44	90,156	1.010
Eliminate inefficiences in the current							
process. Data becomes more							
immediately available.	Intangible Benefit					0	
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Improved yearly reporting and processing deadlines. Data will be							
more immediately available and reports							
can be genereated as needed.	Intangible Benefit					0	
can be genereated as needed.	intangible belieft					0	
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Return on Investment Analysis

Savings Detail

		Affects Project ROI?				ct R	OI?		Potential :	Savings Extens	sions		
Donofit/Covings Description	Project Savings	Va	V			VE	Ve	V4	Y2	V2	V4	Y5	Y6
Benefit/Savings Description	Category	11	112	113	3 Y4	1 7 3	10	Y1	1 12	Y3	Y4	1 15	1 10
					-		1					•	
Reduce the amount of time Equalization			-		ļ	ļ	1						
staff will spend to redraw sketches	Cost Avoidance	Х	х	х	х	х	х	67,584.00	68,259.84	68,942.44	69,631.86	70,328.18	71,031
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Reduce the amount of time Equalization clerical will spend to enter data into the					-							<u> </u>	
	Cost Avoidance	,						90,156.00	91,057.56	91,968.14	92,887.82	93,816.70	94,755
Eliminate inefficiences in the current	Cost Avoidance	Х	Х	х	х	х	х	90,156.00	91,057.50	91,908.14	92,007.02	93,616.70	94,755
process. Data becomes more					-							!	
	Intangible Benefit		į										
ininediately available.	Intangible benefit		├-	1	+-	+	 			<u> </u>	<u> </u>	i !	
Improved yearly reporting and													
processing deadlines. Data will be			İ	į	į		İ						
more immediately available and reports			-										
	Intangible Benefit												
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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:							
Reduce the amount of time Equalization							
staff will spend to redraw sketches	67,584	68,260	68,942	69,632	70,328	71,031	415,778
Reduce the amount of time Equalization	01,004	00,200	00,042	00,002	70,020	7 1,00 1	410,770
clerical will spend to enter data into the BSA							
Assessment system.	90,156	91,058	91,968	92,888	93,817	94,755	554,641
	,		,	,		,	
Cost Avoidance Subtotal:	157,740	159,317	160,911	162,520	164,145	165,786	970,419
Cost Avoidance Subtotal.	131,140	109,311	100,911	102,320	104,143	103,700	370,413
Intangible Benefit:							
Eliminate inefficiences in the current							
process. Data becomes more immediately							
available.							
Improved yearly reporting and processing							
deadlines. Data will be more immediately							
available and reports can be genereated as]	
needed.							
Savings Total:	157,740	159,317	160,911	162,520	164,145	165,786	970,419

Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	ojec	t RC)I?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				}		i
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs			781	165	128,865		Х		!	:		
IT Hours - System Maintenance	Development Svcs			40	165	6,600	1.010					х	Х
IT Hours - Customer Support	Development Svcs			80	165	13,200	1.010		х	х	Х	х	Х
IT Hours - Planned Maintenance	Development Svcs				165	0				į	į		
User Hours - New Development	Development Svcs					0				İ	İ		
User Hours - PTNE/OT	Development Svcs					0					į		
Contractor Professional Services	Development Svcs					0					-		ŀ
PC System - Acquisition	Hardware				687	0			1	ŀ	-		-
PC System - Maintenance	Hardware				2,936	0			1		!		
iPad - Acquisition	Hardware			30	420	12,600		х	İ		į		
iPad- Maintenance	Hardware			30	216	6,480			х	х	Х	х	х
Tablet Notebook - Acquisition	Hardware				1,421	0					1		i
Tablet Notebook - Maintenance	Hardware				2,800	0			ŀ	l			l
Laserprinter - Acquisition	Hardware				1,432	0							
Laserprinter - Maintenance	Hardware				1,408	0			İ		İ		
PC Maintenance User Owned	Hardware				2,720	0			1		İ		
Printer Maintenance User Owned	Hardware				1,264	0			1				l
File Space (100GB)	Hardware		ANN		23	0			ŀ	ŀ	ļ		
Package Software - Acquisition	Software		ANN	183,195	0.45	82,438	1.010	х	1				
Package Software - Maintenance	Software		ANN	183,195	0.35	64,118	1.010		х	х	Х	Х	Х
Business Objects Access	Software					0			1		1		i
Term Emulation SFTW-Acquisition	Software					0			l		}		ł
Term Emulation SFTW-Maintenance	Software					0					-		
Server - Acquisition/Upgrade	Infrastructure				8,000	0							
Server - Maintenance	Infrastructure				360	0					į		
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0			ĺ	ĺ	ĺ		
Server Sftwre - Maintenance	Infrastructure					0			1		-		l
Server Rack Mount	Infrastructure				400	0			ļ				_
Oracle Enterprise Per Processor -										İ	!		
Includes Year 1 Maintenance	Infrastructure				21,372	0							: 1
Oracle Enterprise Per Processor - Year					-				1	İ	İ		i
2 and Beyond	Infrastructure				3,432	0							

Return on Investment Analysis

Cost Detail

								Aff	ects	s Pro	ojec	t ROI	?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	1			1	- !	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5 Y	′ 6
SQL Server Enterprise - Per Processor												T	
(4 cores) - Purchased Sept 2016-Aug											Ì	-	
2017 - Includes Maintenance thru Aug											- !		
2019	Infrastructure				24,533	0						ļ	
SQL Server Enterprise - Per Processor											i		
(4 cores) - Purchased Sept 2017-Aug										İ	İ		
2018 - Includes Maintenance thru Aug												İ	
2019	Infrastructure				20,759	0					ļ		
SQL Server Enterprise - Per Processor											į	-	
(4 cores) - Purchased Sept 2018-Aug											- 1		
2019 - Includes Maintenance thru Aug											ı	ļ	
2019	Infrastructure				16,985	0					į		
SQL Server Enterprise - Maintenance,										ŀ	-	-	
Per Processor (4 cores) - Sept 2019													
and Beyond	Infrastructure				4,218	0							
SQL Server Standard - Per Processor											į		
(4 cores) - Purchased Sept 2016-Aug								1		İ	ĺ	İ	
2017 - Includes Maintenance thru Aug											- 1		
2019	Infrastructure				6,398	0					-	-	
SQL Server Standard - Per Processor											- 1		
(4 cores) - Purchased Sept 2017-Aug								1			- 1		
2018 - Includes Maintenance thru Aug										İ	ĺ	İ	
2019	Infrastructure				5,414	0					Ì	-	
SQL Server Standard - Per Processor													
(4 cores) - Purchased Sept 2018-Aug												į	
2019 - Includes Maintenance thru Aug								l			į		
2019	Infrastructure				4,429	0		1		İ	ĺ	İ	
SQL Server - Standard Maintenance,										1	- 1	-	
Per Processor (4 cores) - Sept 2019											- !	-	
and Beyond	Infrastructure				1,100	0					ļ	ļ	
Websphere Basic Per Processor											i		
Single/Dual Core - Includes Year 1											į	İ	
Maintenance	Infrastructure				3,506	0					Ì		

Return on Investment Analysis

Cost Detail

								Aff	ects	Pro	iect	ROI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	1			,	-
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3 '	۲4¦۲	Y5 Y6
								l		\equiv	T	\equiv
Websphere Basic Per Processor									İ			İ
Single/Dual Core - Year 2 and Beyond	Infrastructure				701	0					- 1	
Websphere ND Per Processor												
Single/Dual Core - Includes Year 1								li	į			
Maintenance	Infrastructure				13,180	0						
Websphere ND Per Processor						_			l		- 1	
	Infrastructure				2,635	0					_	_
SSL Certificate	Infrastructure				845	0					_	
	Infrastructure				180	0		Li				
Imperva Web Application Firewall								li				
(External Web Applications Only)	Infrastructure		ANN		500	0				i	i_	
App Code Directories on Consolidated								li	į			İ
IIS Server (Virtual)	Infrastructure		ANN		415	0		li				
Database (5 GB) on Consolidated SQL												İ
Instance Server	Infrastructure		ANN		930	0			ŀ		- 1	
Database Instance (125 GB DB) on												
Consolidated SQL Server	Infrastructure		ANN		2,395	0		li			-	
Database SQL Maint Server	Infrastructure		ANN		834	0		l				
Database SQL Server Physical	Infrastructure		ANN		19,158	0						
DB Maintenance (Annual Cycle \$610)	Infrastructure		ANN		610	0				Î		
DB Maintenance (Semi-Annual Cycle								l			-	-
\$1220)	Infrastructure		ANN		1,220	0						-
DB Maintenance (Semi-Annual Cycle												
\$2440)	Infrastructure		ANN		2,440	0		li	į			
Dedicated Virtual Server	Infrastructure		ANN		4,150	0						
DB Instance Setup	Infrastructure				976	0		li	i	İ	Ť	i
DBA MS SQL Database Creation on												1
Exisitng Instance	Infrastructure				366	0			- 1		-	
Extra Small - 2 Core 8GB RAM, 500GB						_						1
Drive, 10 GB NIC - Cloud/Virtual =											- 1	
\$601 On Premise Physical Server =												İ
N/A	Infrastructure		ANN			0			İ		- 1	İ

Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	ojec	t RC) ?
0	Project Cost	Budget Category/Funding	Unit		Rate per	T. (.) 0(Annual			\ \ \ \	a	\/-	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
Small - 4 Core 16GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =													
\$951 On Premise Physical Server =													
\$9,288	Infrastructure		ANN			0							
Medium - 8 Core 32GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =													
\$1,702 On Premise Physical Server =													į
\$9,751	Infrastructure		ANN			0							
Large - 16 Core 64GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =													
\$3,167 On Premise Physical Server =													į
\$10,446	Infrastructure		ANN			0							ı
Extra Large - 40 Core 160GB RAM,													
500GB Drive, 10 GB NIC -													
Cloud/Virtual = \$7,564 On Premise													
Physical Server = \$12,906	Infrastructure		ANN			0							į

Return on Investment Analysis

Cost Detail

		Potential Cost Extensions								
	Project Cost				1					
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6			
IT Hours - New Development	Development Svcs	128,865.00		!	ļ					
IT Hours - System Maintenance	Development Svcs		6,666.00	6,732.66	6,799.99	6,867.99	6,936.67			
IT Hours - Customer Support	Development Svcs		13,332.00	13,465.32	13,599.97	13,735.97	13,873.33			
IT Hours - Planned Maintenance	Development Svcs									
User Hours - New Development	Development Svcs			 						
User Hours - PTNE/OT	Development Svcs									
Contractor Professional Services	Development Svcs									
PC System - Acquisition	Hardware			! !						
PC System - Maintenance	Hardware									
iPad - Acquisition	Hardware	12,600.00								
iPad- Maintenance	Hardware		6,480.00	6,480.00	6,480.00	6,480.00	6,480.00			
Tablet Notebook - Acquisition	Hardware									
Tablet Notebook - Maintenance	Hardware									
Laserprinter - Acquisition	Hardware									
Laserprinter - Maintenance	Hardware									
PC Maintenance User Owned	Hardware									
Printer Maintenance User Owned	Hardware									
File Space (100GB)	Hardware									
Package Software - Acquisition	Software	82,437.75								
Package Software - Maintenance	Software		64,759.43	65,407.03	66,061.10	66,721.71	67,388.93			
Business Objects Access	Software									
Term Emulation SFTW-Acquisition	Software									
Term Emulation SFTW-Maintenance	Software									
Server - Acquisition/Upgrade	Infrastructure									
Server - Maintenance	Infrastructure			!						
Server Sftwre - Acquisition/Upgrade	Infrastructure									
Server Sftwre - Maintenance	Infrastructure									
Server Rack Mount	Infrastructure									
Oracle Enterprise Per Processor -										
Includes Year 1 Maintenance	Infrastructure			ļ						
Oracle Enterprise Per Processor - Year										
2 and Beyond	Infrastructure			i ! !						

Return on Investment Analysis

Cost Detail

			Pote	ential Cost E	xtensions		
	Project Cost		1			!	!
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise - Per Processor			1	:	:	1	!
(4 cores) - Purchased Sept 2016-Aug							
2017 - Includes Maintenance thru Aug				-		-	
2019	Infrastructure			ļ			
SQL Server Enterprise - Per Processor							
(4 cores) - Purchased Sept 2017-Aug				İ		İ	
2018 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Enterprise - Per Processor							
(4 cores) - Purchased Sept 2018-Aug				}			
2019 - Includes Maintenance thru Aug				•	İ	1	
2019	Infrastructure		İ	ļ			
SQL Server Enterprise - Maintenance,			-	!		1	
Per Processor (4 cores) - Sept 2019				ļ			
and Beyond	Infrastructure			•			
SQL Server Standard - Per Processor							
(4 cores) - Purchased Sept 2016-Aug							
2017 - Includes Maintenance thru Aug				•			
2019	Infrastructure						
SQL Server Standard - Per Processor			İ	İ	İ	İ	
(4 cores) - Purchased Sept 2017-Aug						-	
2018 - Includes Maintenance thru Aug				-		1	
2019	Infrastructure			ļ	!		
SQL Server Standard - Per Processor				•			
(4 cores) - Purchased Sept 2018-Aug				İ			
2019 - Includes Maintenance thru Aug							
2019	Infrastructure			}		1	
SQL Server - Standard Maintenance,				İ		1	
Per Processor (4 cores) - Sept 2019						1	
and Beyond	Infrastructure					1	
Websphere Basic Per Processor							
Single/Dual Core - Includes Year 1							
Maintenance	Infrastructure		İ	İ	İ	İ	

Return on Investment Analysis

Cost Detail

	Potential Cost Extensions									
	Project Cost									
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6			
			1	!	!	!	:			
Websphere Basic Per Processor				į	İ	İ	į			
Single/Dual Core - Year 2 and Beyond	Infrastructure						-			
Websphere ND Per Processor										
Single/Dual Core - Includes Year 1										
Maintenance	Infrastructure									
Wahanhara ND Dar Drassager				i ! !						
Websphere ND Per Processor Single/Dual Core - Year 2 and Beyond	Infrastructure		İ	į	į	İ	•			
SSL Certificate	Infrastructure		 			<u> </u>	<u> </u>			
Internet Access	Infrastructure		-	! 	1	-				
Imperva Web Application Firewall	Immastructure		-	<u> </u>	<u> </u>					
(External Web Applications Only)	Infrastructure									
App Code Directories on Consolidated	Illiastructure		İ		İ					
IIS Server (Virtual)	Infrastructure			i ! !						
Database (5 GB) on Consolidated SQL	Illiastiucture		 	<u> </u>	<u> </u>	<u> </u>	<u> </u>			
Instance Server	Infrastructure									
Database Instance (125 GB DB) on	illiastructure		 	<u> </u> 	<u> </u>	<u>i</u>	i 			
Consolidated SQL Server	Infrastructure						-			
Database SQL Maint Server	Infrastructure				1					
Database SQL Server Physical	Infrastructure		<u> </u>	<u> </u>	1					
DB Maintenance (Annual Cycle \$610)	Infrastructure		 	<u> </u>	<u>i</u> 	<u>i</u>	<u>i</u>			
DB Maintenance (Semi-Annual Cycle	minastractare		1	i 	<u> </u>	i 	i !			
\$1220)	Infrastructure			 						
DB Maintenance (Semi-Annual Cycle			İ	i I						
\$2440)	Infrastructure			!	1					
Dedicated Virtual Server	Infrastructure									
DB Instance Setup	Infrastructure		1		1		; ;			
DBA MS SQL Database Creation on			İ							
Exisitng Instance	Infrastructure			!			<u> </u>			
Extra Small - 2 Core 8GB RAM, 500GB										
Drive, 10 GB NIC - Cloud/Virtual =					1		<u> </u>			
\$601 On Premise Physical Server =						1	<u> </u>			
N/A	Infrastructure			<u>!</u>			[

Return on Investment Analysis

Cost Detail

			Potential Cost Extensions							
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6			
Small - 4 Core 16GB RAM, 500GB			:	-	!	:	:			
Drive, 10 GB NIC - Cloud/Virtual =			İ	ļ		ļ				
\$951 On Premise Physical Server =				ļ						
\$9,288	Infrastructure		•				ļ			
Medium - 8 Core 32GB RAM, 500GB										
Drive, 10 GB NIC - Cloud/Virtual =			İ	İ		İ	İ			
\$1,702 On Premise Physical Server =										
\$9,751	Infrastructure		•				•			
Large - 16 Core 64GB RAM, 500GB			İ	-		İ	İ			
Drive, 10 GB NIC - Cloud/Virtual =			İ	İ	İ	İ	į			
\$3,167 On Premise Physical Server =				-			-			
\$10,446	Infrastructure		!	ļ	!		!			
Extra Large - 40 Core 160GB RAM,							İ			
500GB Drive, 10 GB NIC -			•	į						
Cloud/Virtual = \$7,564 On Premise			İ	i I			İ			
Physical Server = \$12,906	Infrastructure					1				

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	128,865						128,865
IT Hours - System Maintenance		6,666	6,733	6,800	6,868	6,937	34,003
IT Hours - Customer Support		13,332	13,465	13,600	13,736	13,873	68,007
IT Hours - Planned Maintenance							
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	128,865	19,998	20,198	20,400	20,604	20,810	230,875
Hardware:							
iPad - Acquisition	12,600						12,600
iPad- Maintenance		6,480	6,480	6,480	6,480	6,480	32,400
Hardware Subtotal:	12,600	6,480	6,480	6,480	6,480	6,480	45,000
Software:							
Package Software - Acquisition							
Package Software - Maintenance	82,438	64,759	65,407	66,061	66,722	67,389	412,776
Software Subtotal:	82,438	64,759	65,407	66,061	66,722	67,389	412,776
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							

Return on Investment Analysis

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Other Subtotal:							
Costs Total:	223,903	91,237	92,085	92,941	93,806	94,679	688,651

Return on Investment Analysis

Assumptions

Date	Assumption Description
	Assume software pricing as an annual license fee (software as a service). We used PivotPoint pricing as a guide: \$.35 per parcel per year
	based on the total number of parcels in the unit that will be used in the application. A one time setup fee of \$.10 per parcel. Support and
	training are included in the \$.35 cost. There are no per seat/device restrictions. Includes access to the vendors website for admin and
22-Mar-20	manager functions. Equalization currently has 182,243 residential parcels x .35 = 63,785 + 182,243 x setup .10 = 18, 224 = 82,009
22 Mar 20	Reduce the amount of time Equalization staff will spend to redraw sketches: 12,000 sketches x .15min each sketch 1,800/60 = 30hrs x \$21.68 Equalization Clerk rate = \$650 a week x 52 = 33,800 (2 clerks)
22-Mar-20	Reduce the amount of time Equalization clerical will spend to enter data into the BSA Assessment system: 16,000 record cards at x .15
22-Mar-20	min. each record card 2400/60 = 40hrs x \$21.68 Equalization Clerk rate = \$867 a week x 52 = 45,094 (2 Clerks)
	Software will reside on existing BSA servers; additional servers will not need to be built.
10 0411 20	Contrary will reside on synothing per real relie, additional contrary will not move to be built.