Project Name: HSD GIS Data Consolidation Project ID: D59166DC

Leadership Group: Fina	nce/Admin			1							
Department: Health and	d Human Serv	ices		Division: Homeland Security							
Project Sponsor: Thom Hardesty	nas	Date Requ	este	d: 02/15/08	PM Custom	er No. 166					
Request Type: XX New Development Enhancement Customer Support  Planned System Maintenance or Upgrade											
IT Team Name: Public	and Environm	ental Servic	es	IT Team No: 5							
Project Manager/Leade	r: Stu Smith										
Account 98990 Number:	Account Description:	Homela :	and Se	ecurity	Customer Name:	Homeland Security					
Grant Funded? Yes <u>No XX</u>		Mandate? Mandate Source:		Yes	No XX						

### **Project Goal**

To develop a system and process within the enterprise GIS so that data relevant to Emergency Response (hospitals, day care centers, schools, etc.) is collected and maintained in a centralized manner.

## **Business Objective**

The main business objective of this project is to consolidate the GIS data from different sources (schools, daycare centers, hospitals, etc.) into one source and avoid redundant, incomplete and out-of-date data sources so that it will be easy for the Emergency Management team to pull/map data during emergency situations

- Ensure data in layers of GIS is current and accurate
- · Eliminate duplicate and out of date data
- Indexing of various GIS layers
- Consistent naming conventions for files and layers

#### **Major Deliverables**

- Detailed Project Plan
- Implementation Plan
- System Requirements
- Consolidated GIS data
- Technical Architecture Diagram(s)
- User Acceptance Test Plan
- Disaster Recovery Toolkit
- Service Level Agreement
- Service Center Knowledge Documents
- Training/User Manuals

Project Name: HSD GIS Data Consolidation Project ID: D59166DC

#### **Approach**

- Develop Detailed Project Plan
- Collect/Research various GIS data sources
- Document system requirements
- Determine and document system architecture and diagram
- Conduct Tech Review
- 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 - Research conducted; nothing found

## **Benefits**

See Return on Investment (ROI) Analysis Document

## **Impact**

Number of Users 25+

**Divisions** Homeland Security **Leadership Groups** Finance/Admin

## **Risk**

**Business Environment** Medium – Project will require some changes to existing business

processes.

**Technical Environment** Medium – Previously implemented technologies with new aspects

and/or new requirements.

Project Name: HSD GIS Data Consolidation Project ID: D59166DC

## **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:	<u>Name</u>	<u>Hours per Day</u>
Sponsor	Thomas Hardesty	As Needed
Business Lead	Kevin Scheid	As Needed
Subject Matter Expert	Tracey McGee	As Needed

#### **Facilities**

•

#### **Technical**

None anticipated

## **Funding**

• Information Technology

#### Other

•

**Priority** 

## **Constraints**

• None Applicable

### **Exclusions**

•

Project Name: HSD GIS Data Consolidation Project ID: D59166DC

#### PROJECT PHASE AUTHORIZATION

Phase(s):		
Total Estimated Application Services	Hours: 584	
Total Estimated Technical Systems	Hours: 11	
Total Estimated CLEMIS	Hours:	
Total Estimated Internal Services	Hours:	
IT Application Services Division Manager Approva	ıl:	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:	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 595	Cost: \$98,175

Project Name: HSD GIS Data Consolidation Project ID: D59166DC

#### PROJECT COMPLETION AUTHORIZATION

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

HSD GIS Data Consolidation - Size Estimate (+/- 10% to 50%)

<sup>1</sup> Type	ID	Task Name	Estimated	Estimate Notes
2			Hours	
3 3	000000	PROJECT MANAGEMENT	183	
<sup>4</sup> Phase	200000	DEFINE BUSINESS REQUIREMENTS	113	
5 Phase	300000	DESIGN PROCESS AND LAYER SELECTION	117	
6 Phase	500000	DEVELOP AND DEPLOYMENT	150	
7 Phase	600000	IMPLEMENTATION PHASE		
8 Phase	080000	POST IMPLEMENTATION SUPPORT	32	
9			595	

As Of: 7/17/2020

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:	13,000	13,260	13,525	13,796	14,072	14,353	82,006
Costs:							
Development Services Subtotal:	98,175	0	0	0	0	0	98,175
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	0	0	0	0	0	0	0
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	13,000	13,260	13,525	13,796	14,072	14,353	82,006
Annual Total Costs	98,175	0	0	0	0	0	98,175
Annual Return on Investment	(85,175)	13,260	13,525	13,796	14,072	14,353	(16,169)
Annual Costs/Savings Ratio	755.19%	0.00%		0.00%	0.00%	0.00%	(10,100)
Project Cumulative Statistics:							
Cumulative Total Savings	13,000	26,260	39,785	53,581	67,653	82,006	82,006
Cumulative Total Costs	98,175	98,175	98,175	98,175	98,175	98,175	98,175
Cumulative Return on Investment	(85,175)	(71,915)	(58,390)	(44,594)	(30,522)	(16,169)	(16,169)
Cumulative Cost/Savings Ratio	755.19%	373.86%	246.76%	183.23%	145.12%	119.72%	119.72%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							NO PATBACK
Signatures:							
Ĭ							
Benefits Reviewed By Project Sponsor	,			Date:			
Costs (including IT Resources) Reviewed By							
Information Technology Project Manager				Date:			

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
Time spent in searching various data							
points in GIS	Cost Avoidance		HR	200	65	13,000	1.020
Having accurate data a necessity							
during an emergency	Intangible Benefit					0	
Quicker emergency response	Intangible Benefit					0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	

Return on Investment Analysis

#### Savings Detail

		A1	fect	s P	roj	jec	t RO	OI?	Potential Savings Extensions							
Benefit/Savings Description	Project Savings Category	Y1	Y2	Ϋ́	3 Y	<b>/</b> 4	Y5	Υ6	Y1	Y2	<b>Y</b> 3	Y4	Y5	Y6		
Time spent in searching various data			I	į	Ī	I										
points in GIS	Cost Avoidance	х	х	Х	Х		Χ	Х	13,000.00	13,260.00	13,525.20	13,795.70	14,071.62	14,353		
Having accurate data a necessity			1	1	Ī	1										
during an emergency	Intangible Benefit			ĺ	Î	ĺ		ĺ								
Quicker emergency response	Intangible Benefit		l		I	ı										
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As Of: 7/17/2020

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:							
Time spent in searching various data points							
in GIS	13,000	13,260	13,525	13,796	14,072	14,353	82,006
	10,000	10,200	10,020	10,700	14,072	14,000	02,000
Cost Avoidance Subtotal:	13,000	13,260	13,525	13,796	14,072	14,353	82,006
Intangible Benefit:							
Having accurate data a necessity during an emergency							
Quicker emergency response							
	40.000	40.000	40.555	10 =00	44.0=2	44.0-2	•••
Savings Total:	13,000	13,260	13,525	13,796	14,072	14,353	82,006

As Of: 7/17/2020

Return on Investment Analysis

								Af	ects	Pro	oject	t ROI	?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual						
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	<b>Y3</b>	Y4	Y5 Y	<b>6</b>
IT Hours - New Development	Development Svcs			595	165	98,175		Х		ŀ	ł		
IT Hours - System Maintenance	Development Svcs				165	0					į		
IT Hours - Customer Support	Development Svcs				165	0							
IT Hours - Planned Maintenance	Development Svcs				165	0				Ī	Ī		
User Hours - New Development	Development Svcs					0				ĺ	ľ		
User Hours - PTNE/OT	Development Svcs					0							
Contractor Professional Services	Development Svcs					0							
PC System - Acquisition	Hardware				814	0							
PC System - Maintenance	Hardware				2,304	0							
Notebook - Acquisition	Hardware				1,223	0							
Notebook - Maintenance	Hardware				2,372	0				Ī	Ī		
Tablet Notebook - Acquisition	Hardware				2,012	0				Î	Î		
Tablet Notebook - Maintenance	Hardware					0				į	į		
Laserprinter - Acquisition	Hardware				1,432	0							
Laserprinter - Maintenance	Hardware				1,104	0				Ī	ĺ		
Image Workstations - Acquisition	Hardware					0							
Image Workstations - Maintenance	Hardware				3,496	0				i			
PC Maintenance User Owned	Hardware				2,304	0				Ī	ĺ		
Printer Maintenance User Owned	Hardware				1,072	0				Î	Î		
File Space (100GB)	Hardware		ANN		173	0				į			
Internet Bandwidth per MB	Hardware		ANN		750	0							
Package Software - Acquisition	Software					0							
Package Software - Maintenance	Software					0							
Business Objects Access	Software					0				į	į		
Term Emulation SFTW-Acquisition	Software					0				Ī	į		
Term Emulation SFTW-Maintenance	Software					0				ĺ	ľ		
Server - Acquisition/Upgrade	Infrastructure				8,000	0				Ī			
Server - Maintenance	Infrastructure				360	0							
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0				Ī			
Server Sftwre - Maintenance	Infrastructure					0							
Server Rack Mount	Infrastructure				400	0				į	į		
Oracle Enterprise Per Processor -										Ī	Ī		
Includes Year 1 Maintenance	Infrastructure				21,372	0				- 1	İ		
Oracle Enterprise Per Processor - Year													
2 and Beyond	Infrastructure				3,432	0						i_	

As Of: 7/17/2020

Return on Investment Analysis

	I							Af	ect	s Pro	oiec	t ROI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual					
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	<b>Y2</b>	<b>Y3</b>	Y4	Y5 Y6
SQL Server Enterprise - Per Processor										$\Box$	$\equiv$	
(4 cores) - Purchased Sept 2016-Aug										. !	- 1	
2017 - Includes Maintenance thru Aug											į	
2019	Infrastructure				24,533	0				ıİ		
SQL Server Enterprise - Per Processor												
(4 cores) - Purchased Sept 2017-Aug										. !	ı	
2018 - Includes Maintenance thru Aug										. !	į	
2019	Infrastructure				20,759	0				: !	- 1	
SQL Server Enterprise - Per Processor												
(4 cores) - Purchased Sept 2018-Aug											- 1	
2019 - Includes Maintenance thru Aug											į	
2019	Infrastructure				16,985	0				. !	į	
SQL Server Enterprise - Maintenance,					,							
Per Processor (4 cores) - Sept 2019										<u> </u>	ı	
and Beyond	Infrastructure				4,218	0						
SQL Server Standard - Per Processor					,							
(4 cores) - Purchased Sept 2016-Aug										ı İ	- 1	İ
2017 - Includes Maintenance thru Aug											į	
2019	Infrastructure				6,398	0				. !	į	
SQL Server Standard - Per Processor					,							
(4 cores) - Purchased Sept 2017-Aug											- 1	
2018 - Includes Maintenance thru Aug											į	
2019	Infrastructure				5,414	0				ıİ		
SQL Server Standard - Per Processor												
(4 cores) - Purchased Sept 2018-Aug											ı	
2019 - Includes Maintenance thru Aug										ıİ	ı	
2019	Infrastructure				4,429	0				;	- 1	İ
SQL Server - Standard Maintenance,					,	-						
Per Processor (4 cores) - Sept 2019											ı	
and Beyond	Infrastructure				1,100	0				ı İ	į	
Websphere Basic Per Processor					,	-						
Single/Dual Core - Includes Year 1										, !		
Maintenance	Infrastructure				3,506	0				i	į	İ

As Of: 7/17/2020

Return on Investment Analysis

										s Pro	ject	ROI?
	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
Websphere Basic Per Processor										İ		
· ·	Infrastructure				701	0				į	İ	
Websphere ND Per Processor										i	-	
Single/Dual Core - Includes Year 1										į		
Maintenance	Infrastructure				13,180	0						
Websphere ND Per Processor										l		
Single/Dual Core - Year 2 and Beyond	Infrastructure				2,635	0				į	i	
SSL Certificate	Infrastructure				845	0				į	I	
Internet Access	Infrastructure				180	0				İ	Ī	
App Code Directories on Consolidated												
IIS Server (Virtual)	Infrastructure		ANN		415	0				į	- [	
Database (5 GB) on Consolidated SQL										i	Ī	
Instance Server	Infrastructure		ANN		930	0				į	İ	
Database Instance (125 GB DB) on												
Consolidated SQL Server	Infrastructure		ANN		2,395	0				į	į	
Database SQL Maint Server	Infrastructure		ANN		834	0				Ī	Ī	
Database SQL Server Physical	Infrastructure		ANN		19,158	0					Ĭ	
DB Maintenance (Annual Cycle \$610)	Infrastructure		ANN		610	0				į		
DB Maintenance (Semi-Annual Cycle										į	İ	
\$1220)	Infrastructure		ANN		1,220	0				ĺ	į	
DB Maintenance (Semi-Annual Cycle											l	į
\$2440)	Infrastructure		ANN		2,440	0				į		
Dedicated Virtual Server	Infrastructure		ANN		4,150	0						į
DB Instance Setup	Infrastructure				976	0						
DBA MS SQL Database Creation on										i		
Exisitng Instance	Infrastructure				366	0					i	
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601	Infractructure		ΔΝΝ			0						
On Premise Physical Server = N/A	Infrastructure		ANN			0					i	<u>i_</u>

Return on Investment Analysis

Cost Detail

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

REV: January 22, 2018

As Of: 7/17/2020

Return on Investment Analysis

	Potential Cost Extensions								
Project Cost									
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6		
IT Hours - New Development	Development Svcs	98,175.00				1 1 1			
IT Hours - System Maintenance	Development Svcs								
IT Hours - Customer Support	Development Svcs			į	į		į		
IT Hours - Planned Maintenance	Development Svcs	]		İ			j		
User Hours - New Development	Development Svcs	ļ			ļ	]   			
User Hours - PTNE/OT	Development Svcs								
Contractor Professional Services	Development Svcs						•		
PC System - Acquisition	Hardware			Ì	}		į		
PC System - Maintenance	Hardware								
Notebook - Acquisition	Hardware			į			į		
Notebook - Maintenance	Hardware								
Tablet Notebook - Acquisition	Hardware			Î Î			ĺ		
Tablet Notebook - Maintenance	Hardware								
Laserprinter - Acquisition	Hardware			į			!		
Laserprinter - Maintenance	Hardware								
Image Workstations - Acquisition	Hardware	Ì					]		
Image Workstations - Maintenance	Hardware			į			į		
PC Maintenance User Owned	Hardware								
Printer Maintenance User Owned	Hardware			Ì			ĺ		
File Space (100GB)	Hardware								
Internet Bandwidth per MB	Hardware			į			!		
Package Software - Acquisition	Software								
Package Software - Maintenance	Software				[ [	]    -			
Business Objects Access	Software			İ			į		
Term Emulation SFTW-Acquisition	Software								
Term Emulation SFTW-Maintenance	Software					1 1 1	!		
Server - Acquisition/Upgrade	Infrastructure								
Server - Maintenance	Infrastructure			}	[		}		
Server Sftwre - Acquisition/Upgrade	Infrastructure								
Server Sftwre - Maintenance	Infrastructure			<u> </u>			]		
Server Rack Mount	Infrastructure			<u> </u>					
Oracle Enterprise Per Processor -				İ	i		İ		
Includes Year 1 Maintenance	Infrastructure			•		 	<u> </u>		
Oracle Enterprise Per Processor - Year				İ			į.		
2 and Beyond	Infrastructure			<u>i                                      </u>			<u>i                                      </u>		

Return on Investment Analysis

		Potential Cost Extensions						
	Project Cost							
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6	
SQL Server Enterprise - Per Processor			! !	! !				
(4 cores) - Purchased Sept 2016-Aug								
2017 - Includes Maintenance thru Aug			İ	İ				
2019	Infrastructure							
SQL Server Enterprise - Per Processor								
(4 cores) - Purchased Sept 2017-Aug								
2018 - Includes Maintenance thru Aug								
2019	Infrastructure							
SQL Server Enterprise - Per Processor			]	[				
(4 cores) - Purchased Sept 2018-Aug								
2019 - Includes Maintenance thru Aug								
2019	Infrastructure		İ	į				
SQL Server Enterprise - Maintenance,			!	!				
Per Processor (4 cores) - Sept 2019								
and Beyond	Infrastructure							
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2016-Aug								
2017 - Includes Maintenance thru Aug			İ	İ				
2019	Infrastructure							
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2017-Aug								
2018 - Includes Maintenance thru Aug								
2019	Infrastructure							
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2018-Aug								
2019 - Includes Maintenance thru Aug								
2019	Infrastructure							
SQL Server - Standard Maintenance,								
Per Processor (4 cores) - Sept 2019			•	•				
and Beyond	Infrastructure							
Websphere Basic Per Processor								
Single/Dual Core - Includes Year 1								
Maintenance	Infrastructure		<u> </u>	<u> </u>				

As Of: 7/17/2020

Return on Investment Analysis

		Potential Cost Extensions						
	Project Cost			•	:			
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6	
				!	!	! !		
Websphere Basic Per Processor			•	İ	İ			
g ,	Infrastructure							
Websphere ND Per Processor			•			! ! !	! ! !	
Single/Dual Core - Includes Year 1								
Maintenance	Infrastructure							
Websphere ND Per Processor						i ! !		
· ·	Infrastructure		}					
SSL Certificate	Infrastructure			<del> </del>				
Internet Access	Infrastructure		<u> </u>	<u> </u>	<u>:</u>	<u> </u>		
App Code Directories on Consolidated	milastractare			<u>i</u>				
IIS Server (Virtual)	Infrastructure		•					
Database (5 GB) on Consolidated SQL	milastractare			<u> </u>	!			
Instance Server	Infrastructure			İ				
Database Instance (125 GB DB) on	i i i i dotta dotta i o		<u> </u>	<u> </u>	<u> </u>			
Consolidated SQL Server	Infrastructure		•	•				
Database SQL Maint Server	Infrastructure		1	<u> </u>	<u>i</u> !			
Database SQL Server Physical	Infrastructure							
DB Maintenance (Annual Cycle \$610)	Infrastructure		<u> </u>	<u> </u>				
DB Maintenance (Semi-Annual Cycle				<u>i</u>	<u>i</u>			
\$1220)	Infrastructure							
DB Maintenance (Semi-Annual Cycle			:					
\$2440)	Infrastructure					i !		
Dedicated Virtual Server	Infrastructure							
DB Instance Setup	Infrastructure							
DBA MS SQL Database Creation on				1		! !		
Exisitng Instance	Infrastructure		 	 		! ! !		
Extra Small 2 Cara 9CB BANA 500CB								
Extra Small - 2 Core 8GB RAM, 500GB			•			İ		
Drive, 10 GB NIC - Cloud/Virtual = \$601	landara a taur a trons			İ	•			
On Premise Physical Server = N/A	Infrastructure		1	L	<u> </u>			

As Of: 7/17/2020

Return on Investment Analysis

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

As Of: 7/17/2020 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	98,175						98,175
IT Hours - System Maintenance							
IT Hours - Customer Support							
IT Hours - Customer Support IT Hours - Planned Maintenance							
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	98,175						98,175
Hardware:							
Hardware Subtotal:							
Software:							
Contware.							
Software Subtotal:							
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	98,175						98,175

As Of: 7/17/2020

Return on Investment Analysis

### Assumptions

Date	Assumption Description