Project Name: WRC Legacy App Requirements Project ID: D50611DR

Leadership Group: Land				
Department: Water Resources Comn	nissioner	Division: Admin	istration	
Project Sponsor: Nancy Basch	Date Requeste	d: 3/14/2020	PM Custome	er No. : 611
Request Type: <u>New Develo</u>	<u>pment</u>	Enhancemen	t Cus	stomer Support
Planned Sys	stem Maintenanc	e or Upgrade		
IT Team Name: Public & Environment	tal Services	IT Team No: 5		
Project Manager/Leader: Shashi Gow	da			
Account Account Number: 74294 Description	WRC Sewer	Fund	Customer Name:	Water Resources Commissioner
Grant Funded? Yes No	Ma	ndate?	Yes	No
	Ма	ndate Source: N/A	1	_

Project Goal

To conduct a discovery phase for the 20+ legacy apps that WRC uses so that a suitable solution and estimates can be provided for WRC to pursue the rewrite of these apps..

Business Objective

- Conduct thorough requirements gathering sessions to identify the users, apps, business rules
- Design a suitable solution to rewrite these apps in the modern, efficient technoligies
- Derive estimates
- Eliminate or reduce the risk of having these WRC-specific programs stop working in future release of our desktop software.
- Reduce the cost associated with program changes due to difficult-to-decipher code.
- Eliminate or reduce the risk of programming errors that are created because the code is overly complex.
- Eliminate "shared" databases. For example, originally one WRC employee was responsible for WRC HR, equipment management, and fiscal rebills. That employee's database contained data to support all three functions. When the employee's tasks were done by three different employees, the combined database had to be shared by the three new employees, and the sensitive HR data had to be stripped out.
- Eliminate access issues caused by shared databases.

Major Deliverables

- List of users
- List of Legact apps
- Detailed Business requirements document(BRD)
- Design/Approach document
- Deatiled estimates to rewrite the apps

Project Name: WRC Legacy App Requirements Project ID: D50611DR

Approach

- Identify the users of the legacy apps
- Identify the apps that needs to be rewritten
- Conduct detailed requirements gathering sessions for each app
- Document the requirements
- Develop an approach/design document
- Develop detailed estimates to rewrite the identified apps

Research & Analysis

Gartner Research Recommendation

Research Conducted; Nothing Found

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 20-30 WRC Employees

Divisions Water Resources Commissioner's Office

Leadership Groups Land

<u>Risk</u>

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: WRC Legacy App Requirements Project ID: D50611DR

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: Nancy Basch As needed

Facilities

None

Technical

None

Funding

 All costs will be funded by proprietary funds. Each database rewrite will be funded by the appropriate benefitting system.

Other

None

Priority

• TBD

Constraints

None

Exclusions

None

Project Name: WRC Legacy App Requirements Project ID: D50611DR

PROJECT PHASE AUTHORIZATION

Phase(s): All Phas	es				
Total Estimated A	pplication Service	es	Hours: 772		
Total Estimated Te	echnical Systems	;	Hours: 70		
Total Estimated C	LEMIS		Hours:		
Total Estimated In	ternal Services		Hours:		
IT Application Ser	vices Division Ma	nager Approval:			Date:
IT Technical Syste	ms Division Man	ager Approval:			Date:
IT CLEMIS Divisio	n Manager Appro	val:			Date:
IT Internal Service	s Division Manag	jer Approval:			Date:
IT Management Ap	oproval:				
Approved:	Yes	No			Date:
Reason:					
Project Sponsor A	ipproval:			_	
Title:					Date:
				-	

PROJECT SUMMARY

Authorized Development (see above)	Hours:	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 842	Cost: \$138,930

Project Name: WRC Legacy App Requirements Project ID: D50611DR

PROJECT COMPLETION AUTHORIZATION

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

WRC Legacy App Rewrite - Size Estimate (+/- 10% to 50%)

1	Туре	ID	Task Name	Estimated	Estimate Notes
2				Hours	
3	3	000000	PROJECT MANAGEMENT	200	
4	Phase	200000	DISCOVERY PHASE	642	
5				842	

Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:						j	
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	0	0	0	0	0	0	0
Costs:							
Development Services Subtotal:	138,930	0	0	0	0	0	138,930
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	0	0	0	0	0	0	0
Annual Total Costs	138,930	0	0	0	0	0	138,930
Annual Return on Investment	(138,930)						(138,930)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	(100,000)
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	138,930	138,930	138,930	138,930	138,930	138,930	138,930
Cumulative Return on Investment	(138,930)	(138,930)	(138,930)	(138,930)	(138,930)	(138,930)	(138,930)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							NO 17(1B/(G)(
Signatures:							
Panafita Paylowed By Project Spanger				Date:			
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By							
Information Technology Project Manager				Date:			

Return on Investment Analysis

Savings Detail

	Brainet Savinge		Unit		Boto nor		Annual
Bonofit/Continue Bonomintion	Project Savings	Budget October 15 and in a Course		11!4	Rate per	Total Carriera	
Benefit/Savings Description	Category	Budget Category/Funding Source	Desc	Units	Unit	Total Savings	Multiplier
improved compatibility with desktop							
operating systems	Intangible Benefit					0	
Streamlined and consolidated system							
provisioning and access control	Intangible Benefit					0	
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Savings Detail

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Banafit/Cardinana Bananintian	Project Savings	\	vo	V2		\			V0	V2	V4	V.5	VC
Benefit/Savings Description	Category	Y1	Y2	Y 3	Y 4	¦ Y 5	Υt	Y1	Y2	Y3	Y4	Y5	Y6
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improved compatibility with desktop				İ	į	Ì			İ				
operating systems	Intangible Benefit											<u> </u>	
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Streamlined and consolidated system				į	İ								İ
provisioning and access control	Intangible Benefit					-					-		
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Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
To a villa Dona Sta Outstatel							
Tangible Benefits Subtotal:							
Cost Avoidance:							
0							
0							
O .							
Cost Avoidance Subtotal:							
Intangible Benefit:							
improved compatibility with desktop							
operating systems Streamlined and consolidated system							
provisioning and access control							
provisioning and access control							
Savings Total:							

Cost Detail

								Aff	fects	Pro	iect	ROI?	?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual			:	<u> </u>	-	T
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y 4 '	Y5 Y6	6
IT Hours - New Development	Development Svcs		HR	842	165	138,930	1.010	Х	l	- 1	〒	\equiv	=
IT Hours - System Maintenance	Development Svcs				165	0			i	ĺ			
IT Hours - Customer Support	Development Svcs				165	0				İ			
IT Hours - Planned Maintenance	Development Svcs				165	0			l	-			
User Hours - New Development	Development Svcs		EA		4,152								
User Hours - PTNE/OT	Development Svcs					0							
Contractor Professional Services	Development Svcs					0			Ì	Î			
PC System - Acquisition	Hardware				687	0			l	İ			
PC System - Maintenance	Hardware				2,936	0			i	- 1			
Notebook - Acquisition	Hardware				1,115	0							
Notebook - Maintenance	Hardware				3,024	0				- 1			
Tablet Notebook - Acquisition	Hardware				1,421	0			i				
Tablet Notebook - Maintenance	Hardware				2,800	0			i	1			
Laserprinter - Acquisition	Hardware				1,432	0			ŀ	- 1			
Laserprinter - Maintenance	Hardware				1,408	0							
PC Maintenance User Owned	Hardware				2,720	0				1			
Printer Maintenance User Owned	Hardware				1,264	0			i	İ			
File Space (100GB)	Hardware		ANN		23	0			l	i			
Package Software - Acquisition	Software					0			i	- 1			
Package Software - Maintenance	Software					0			l				
Business Objects Access	Software					0				1			
Term Emulation SFTW-Acquisition	Software					0			i				
Term Emulation SFTW-Maintenance	Software					0				İ			
Server - Acquisition/Upgrade	Infrastructure				8,000	0			l	- 1			
Server - Maintenance	Infrastructure				360	0				İ			
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0				1			
Server Sftwre - Maintenance	Infrastructure					0			i	İ	T		
Server Rack Mount	Infrastructure				400	0			İ	İ		1	
Oracle Enterprise Per Processor -									l	- 1	- 1	1	
Includes Year 1 Maintenance	Infrastructure				21,372	0							
Oracle Enterprise Per Processor - Year					,					1	-	+	
2 and Beyond	Infrastructure				3,432	0				ļ	İ		

Cost Detail

								Aff	ects	Pro	ject	ROI?
Cost Passwintian	Project Cost	Budget Category/Funding	Unit	l lusida	Rate per	Total Coat	Annual	Va	V2	V2 .	,, [,	VE VC
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1 :	Y 2	Y3	Y4¦	Y5 Y6
SQL Server Enterprise - Per Processor									į	į		
(4 cores) - Purchased Sept 2016-Aug									į	į	i	į
2017 - Includes Maintenance thru Aug									į	į	İ	
2019	Infrastructure				24,533	0			į		į	
SQL Server Enterprise - Per Processor									ļ	ļ	ļ	-
(4 cores) - Purchased Sept 2017-Aug									ļ			ļ
2018 - Includes Maintenance thru Aug									į	į	į	
2019	Infrastructure				20,759	0			į	į	į	
SQL Server Enterprise - Per Processor									į	į	į	ļ
(4 cores) - Purchased Sept 2018-Aug									į	Ì	İ	-
2019 - Includes Maintenance thru Aug									ŀ		- 1	
2019	Infrastructure				16,985	0			ļ	ļ	-	-
SQL Server Enterprise - Maintenance,									ļ			
Per Processor (4 cores) - Sept 2019									į	į	į	ļ
and Beyond	Infrastructure				4,218	0			į	į	İ	
SQL Server Standard - Per Processor									İ			
(4 cores) - Purchased Sept 2016-Aug									ļ		-	-
2017 - Includes Maintenance thru Aug									ļ		-	
2019	Infrastructure				6,398	0			į	į	ļ	ļ
SQL Server Standard - Per Processor									i			
(4 cores) - Purchased Sept 2017-Aug									į	į	İ	
2018 - Includes Maintenance thru Aug									į	Ì	Ì	
2019	Infrastructure				5,414	0			ļ	ļ	-	-
SQL Server Standard - Per Processor									į			
(4 cores) - Purchased Sept 2018-Aug									į	į		-
2019 - Includes Maintenance thru Aug									į	i	İ	į
2019	Infrastructure				4,429	0		li	į	į	i	ļ
SQL Server - Standard Maintenance,									İ	- 1		
Per Processor (4 cores) - Sept 2019									ļ	-	-	
and Beyond	Infrastructure				1,100	0			ļ		-	
Websphere Basic Per Processor					-				-		-	-
Single/Dual Core - Includes Year 1									į	į	į	İ
Maintenance	Infrastructure				3,506	0			į	Ì	ĺ	

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 =											-	
\$601 On Premise Physical Server =												İ
N/A	Infrastructure		ANN			0			İ		- 1	İ

Cost Detail

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

Cost Detail

				Potential Cost Extensions							
	Project Cost			1	1	1	1				
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6				
IT Hours - New Development	Development Svcs	138,930.00		1		1	1				
IT Hours - System Maintenance	Development Svcs										
IT Hours - Customer Support	Development Svcs			-	-		-				
IT Hours - Planned Maintenance	Development Svcs			ļ		İ					
User Hours - New Development	Development Svcs										
User Hours - PTNE/OT	Development Svcs			1		1					
Contractor Professional Services	Development Svcs	Ì		1	1	İ					
PC System - Acquisition	Hardware			-							
PC System - Maintenance	Hardware			ļ	!	!					
Notebook - Acquisition	Hardware			1							
Notebook - Maintenance	Hardware			1	1	1					
Tablet Notebook - Acquisition	Hardware			1		İ	İ				
Tablet Notebook - Maintenance	Hardware										
Laserprinter - Acquisition	Hardware				!	İ					
Laserprinter - Maintenance	Hardware										
PC Maintenance User Owned	Hardware				1		1				
Printer Maintenance User Owned	Hardware				İ						
File Space (100GB)	Hardware			İ							
Package Software - Acquisition	Software			ļ	!	!					
Package Software - Maintenance	Software			ļ							
Business Objects Access	Software			1	1	!	1				
Term Emulation SFTW-Acquisition	Software										
Term Emulation SFTW-Maintenance	Software			1	-		-				
Server - Acquisition/Upgrade	Infrastructure				!						
Server - Maintenance	Infrastructure										
Server Sftwre - Acquisition/Upgrade	Infrastructure				İ	1	1				
Server Sftwre - Maintenance	Infrastructure										
Server Rack Mount	Infrastructure			}	-	1					
Oracle Enterprise Per Processor -		ļ			!	!					
Includes Year 1 Maintenance	Infrastructure			1							
Oracle Enterprise Per Processor - Year				1	!	•					
2 and Beyond	Infrastructure				-						

Cost Detail

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

Cost Detail

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

Cost Detail

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

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	138,930						138,930
IT Hours - System Maintenance IT Hours - Customer Support IT Hours - Planned Maintenance							
IT Hours - Customer Support							
IT Hours - Planned Maintenance							
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	138,930						138,930
Hardware:							
Hardware Subtotal:							
Software:							
Software Subtotal:							
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							

Cost Summary

	Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
	Other Subtotal:							
C	osts Total:	138,930						138,930

REV: May 21, 2018

Return on Investment Analysis

Assumptions

Date	Assumption Description
	As per WRC, there could be between 20-30 apps that may need rewrite. For the sake of sizing, IT is assuming 30 applications to be
09-Jun-20	
	For the Discovery phase, we are estimating 20 hours per app to identify the users, Collect Requirements, Document, and estimate the
09-Jun-20	development effort.

Page 15