Project Name: Citizen Engagement Budget – Land LG

Project ID: DE3182CL

Leadership Group: IT Steering Committee										
Departmen	t: Informatio	n Technology			Division: App	lication Services				
Project Spe	onsor: Tamm	ni Shepherd	Date Requ	uestec	I: 1/28/2022	PM Custome	er No. 182			
Request Ty	Request Type: <u>New Development</u> Enhancement Customer Support									
		Planned Sys	tem Mainte	nance	e or Upgrade					
IT Team Na	me: eGover	nment			IT Team No: E					
Project Ma	nager/Leade	r: Stacy Metcal	f							
Account Number:	TBD	Account Description:	TBD			Customer Name:	TBD			
Grant Funded? Yes <u>No</u>			Mandate? Mandate Source:		Yes	<u>No</u>				

### Project Goal

To establish a Citizen Engagement budget for the Land Leadership Group so that hours may be allocated in support of the development and expansion of Oakland County's digital media goals and objectives.

### Business Objective

To provide a shared citizen engagement budget for digital media Initiatives in support of users, departments, agencies, and eGovernment goals and objectives.

#### **Major Deliverables**

- Web Content and Development
  - o Website Development
  - Content Training
  - o Graphics
- Citizen Engagement
  - Email Marketing
  - Content Management

#### Approach

- As a request for citizen engagement digital media channel is approved, the quantities available for each digital asset will be decremented and the work will be scheduled to complete the request
- The approach for requests will be the same for each leadership group.

#### Project Name: Citizen Engagement Budget – Land LG Project ID: DE3182CL

### **Research & Analysis**

**Gartner Research Recommendation** Research Conducted – See recommendation below

Citizens' experience with government services is often "underwhelming," leaving them lacking confidence and trust. Government CIOs leading digital transformation need to establish a citizen experience program with an outside-in approach that meets citizen expectations of digital government services.

Key Findings:

- Government leaders have regularly stated goals of being more citizen-centric or improving the citizen experience. However, unless they're turned into action-oriented strategies, tracked and measured, these goals will not be achieved, which will lead to lower levels of transparency and accountability.
- CX efforts that do not show quantifiable value lose executive support, and often see their funding cut when budgets are tightened.
- Citizen engagement efforts, which are often siloed, frequently fail to produce satisfactory interactions with citizens, leading to a sense of citizen apathy and frustration by government leaders.

Government CIOs leading their organizations in digital transformation should:

- Put citizens at the center of service delivery by following this roadmap to incorporate CX strategies into their digital government strategies.
- Use customer journey maps to identify and prioritize new opportunities for digital services and enterprise wide investments to accelerate their organizations' progress toward implementing digital government.
- Develop CX-focused, digital government key performance indicators across government services that measure digital service effectiveness and drive digital transformation to demonstrate the business value of citizen-centric digital government.

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### **Benefits**

See Return on Investment (ROI) Analysis Document

### **Impact**

Number of Users	The number of users will vary depending on topic.
Divisions	All or department specific depending on topic.
Leadership Groups	All.
<u>Risk</u>	
Business Environment	Low – little or no impact to existing business processes
Technical Environment	Low – proven and previously implemented technologies

### **Assumptions**

StaffingIT Staffing: resources 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>
Project Sponsor	Tammi Shepherd	As needed

Project Name: Citizen Eng	agement Budget – Land LG	Pro	ject ID: DE3182CL
	<u> </u>		

#### Facilities

• None

#### Technical

• None

#### Funding

• IT

#### Other

• None

#### Priority

•

### **Constraints**

• None

### **Exclusions**

None

Project Name: Citizen Engagement Budget – Land LG

Project ID: DE3182CL

#### PROJECT PHASE AUTHORIZATION

Phase(s): ALL									
Total Estimated Application Services Hours: 200									
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 SUMMARY

Authorized Development (see above)	Hours: 200	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 200	Cost: \$33,000
Grand Total Estimated Development	Hours: 200	Cost: \$33,000

Project Name: Citizen Engagement Budget – Land LG

Project ID: DE3182CL

#### PROJECT COMPLETION AUTHORIZATION

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

Citizen Engagement Budget - Land LG - Size Estimate (+/- 10% to 50%) (Read-Only)

<sup>1</sup> Type	ID	Task Name	Estimated	Estimate Notes
2			Hours	
<sup>3</sup> Phase	001000	PROJECT MANAGEMENT	0	
<sup>4</sup> Phase	003000	CITIZEN ENGAGEMENT Land LG	200	
5			200	

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:	16,500	16,748	0	0	0	0	33,248
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	16,500	16,748	0	0	0	0	33,248
Annual Return on Investment	(16,500)	(16,748)					(33,248)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	(00,210)
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	16,500	33,248	33,248	33,248	33,248	33,248	33,248
Cumulative Return on Investment	(16,500)	(33,248)	(33,248)	(33,248)	(33,248)	(33,248)	(33,248)
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?							
Signatures:							
Ponofita Poviourad Py Project Spansor	Date:						
Benefits Reviewed By Project Sponsor							
Costs (including IT Resources) Reviewed By Information Technology Project Manager	Date:						

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Creates a customer service outlet.	oategory		Dese	Onits	Unit	Total Ouvings	manapher
potentially reducing phone calls and/or							
other traditional customer service							
methods.	Intangible Benefit					0	
Helps to improve government service						0	
by gaining a better understanding of the							
needs of the community served.	Intangible Benefit					0	
Enables customers to help one another						0	
by interacting with one another,							
potentially reducing reliance on							
government resources.	Intangible Benefit					0	
Reaches an increasingly mobile and						0	
high-tech audience of all ages.	Intangible Benefit					0	
						0	
Enhances quality of life by facilitating							
local community building by connecting							
people with one another who may have							
not had other means to do so.	Intangible Benefit					0	
Further promotes Oakland County's						0	
use of emerging technologies to serve							
its constituencies.	Intangible Benefit					0	
Creates a "sticky" environment that						0	
draws/attracts more people to the							
OakGov.com web site, thereby							
promoting awareness and conversion							
to other online services.	Intangible Benefit					0	
Potentially reaches a younger audience						<b>.</b>	
and engages them in government early							
on in order to serve their needs for the							
future.	Intangible Benefit					0	
Provides a practical way to							
communicate with Oakland County's							
retiree population and to improve							
outreach through Health, Wellness and							
other program areas.	Intangible Benefit					0	

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Provides a platform for enterprise and							
regional collaboration.	Intangible Benefit					0	
Provides an effective way to solicit							
community input and feedback in							
support of government transparency.	Intangible Benefit					0	
						0	
						0	
						0	
						0	

		Affects Project ROI?			Potential Savings Extensions								
	Project Savings		Ve	Ve	×.				×0	2/0		¥5	
Benefit/Savings Description	Category	¥1	Y2	¥3	¥4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
Creates a customer service outlet,													
potentially reducing phone calls and/or													
other traditional customer service									1				
methods.	Intangible Benefit		<u> </u>										
Helps to improve government service													
by gaining a better understanding of the									ļ				
needs of the community served.	Intangible Benefit		ļ										
Enables customers to help one another									l .				
by interacting with one another,									1				
potentially reducing reliance on									1				
government resources.	Intangible Benefit		<u> </u>										
Reaches an increasingly mobile and									1				
high-tech audience of all ages.	Intangible Benefit												
Enhances quality of life by facilitating									l				
local community building by connecting									1				
people with one another who may have													
not had other means to do so.	Intangible Benefit												
Further promotes Oakland County's													
use of emerging technologies to serve													
its constituencies.	Intangible Benefit												
Creates a "sticky" environment that									l .				
draws/attracts more people to the													
OakGov.com web site, thereby									1				
promoting awareness and conversion													
to other online services.	Intangible Benefit										1 1 2		
Potentially reaches a younger audience													
and engages them in government early									l .				
on in order to serve their needs for the									1				
future.	Intangible Benefit								<u> </u>				
Provides a practical way to			ļ						1				
communicate with Oakland County's									1				
retiree population and to improve													
outreach through Health, Wellness and			ļ										
other program areas.	Intangible Benefit		<u> </u>						<u> </u>				

		Affects Project ROI? Potential Savings Extensions											
Benefit/Savings Description	Project Savings Category	Y1	Y2	Y3	8 Y4	1 Y5	5 Y6	Y1	Y2	Y3	Y4	Y5	Y6
Provides a platform for enterprise and			l	I	1	I	1						
regional collaboration.	Intangible Benefit			1			1						
Provides an effective way to solicit			1	1	1	1	1						
community input and feedback in				1	1	1	1						
support of government transparency.	Intangible Benefit			ļ			1						
			l	1	1	1	1						
				l	1	Ì	1						
			1	ł		1	1				1		
				1		1	1						

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:							
Cost Avoidance Subtotal:							
Intangible Benefit:							
Creates a customer service outlet,							
potentially reducing phone calls and/or othe	er						
traditional customer service methods.							
Helps to improve government service by							
gaining a better understanding of the needs	3						
of the community served.							
Enables customers to help one another by							
interacting with one another, potentially							
reducing reliance on government resources	3						
Reaches an increasingly mobile and high-							
tech audience of all ages.							
Enhances quality of life by facilitating local							
community building by connecting people							
with one another who may have not had							
other means to do so.							
Further promotes Oakland County's use of							
emerging technologies to serve its							
constituencies.							
Creates a "sticky" environment that							
draws/attracts more people to the							
OakGov.com web site, thereby promoting							
awareness and conversion to other online							
services.							
Potentially reaches a younger audience an	d						
engages them in government early on in							
order to serve their needs for the future.							

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Provides a practical way to communicate							
with Oakland County's retiree population and							
to improve outreach through Health,							
Wellness and other program areas.							
Provides a platform for enterprise and							
regional collaboration.							
Provides an effective way to solicit							
community input and feedback in support of							
government transparency.							
Savings Total:							

								Af	fect	s Pro	ojec	t ROI?
	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
IT Hours - New Development 2023	Development Svcs			200	165	33,000	1.015	Х	Х			
IT Hours - Customer Support	Development Svcs					0						
IT Hours - Planned Maintenance	Development Svcs					0						
User Hours - New Development	Development Svcs					0						
User Hours - PTNE/OT	Development Svcs					0					l	
Contractor Professional Services	Development Svcs					0						
PC System - Acquisition	Hardware				814	0						
PC System - Maintenance	Hardware				2,304	0					l	
Notebook - Acquisition	Hardware				1,223	0					l	
Notebook - Maintenance	Hardware				2,372	0						
Tablet Notebook - Acquisition	Hardware				2,012	0						
Tablet Notebook - Maintenance	Hardware					0					1	
Laserprinter - Acquisition	Hardware				1,432	0						
Laserprinter - Maintenance	Hardware				1,104	0						
Image Workstations - Acquisition	Hardware					0						
Image Workstations - Maintenance	Hardware				3,496	0					Î	
PC Maintenance User Owned	Hardware				2,304	0						
Printer Maintenance User Owned	Hardware				1,072	0						
File Space (100GB)	Hardware		ANN		173	0					1	
Internet Bandwidth per MB	Hardware		ANN		750	0						
Package Software - Acquisition	Software					0						
Package Software - Maintenance	Software					0						
Business Objects Access	Software					0					l	
Term Emulation SFTW-Acquisition	Software					0						
Term Emulation SFTW-Maintenance	Software					0						
Server - Acquisition/Upgrade	Infrastructure				8,000	0					Î	
Server - Maintenance	Infrastructure				360	0						
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0						
Server Sftwre - Maintenance	Infrastructure					0						
Server Rack Mount	Infrastructure				400	0					l	
Oracle Enterprise Per Processor -												
Includes Year 1 Maintenance	Infrastructure				21,372	0						
Oracle Enterprise Per Processor - Year												
2 and Beyond	Infrastructure				3,432	0						

								Af	fects	s Pro	ject	ROI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	ĺ	ļ			
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3 `	<b>Y</b> 4 [	Y5 Y6
SQL Server Enterprise - Per Processor									ļ			
(4 cores) - Purchased Sept 2016-Aug												
2017 - Includes Maintenance thru Aug												
2019	Infrastructure				24,533	0						Ì
SQL Server Enterprise - Per Processor												
(4 cores) - Purchased Sept 2017-Aug												ł
2018 - Includes Maintenance thru Aug									į			
2019	Infrastructure				20,759	0			ļ			Î
SQL Server Enterprise - Per Processor												
(4 cores) - Purchased Sept 2018-Aug									į			
2019 - Includes Maintenance thru Aug												Ì
2019	Infrastructure				16,985	0						
SQL Server Enterprise - Maintenance,												
Per Processor (4 cores) - Sept 2019									į			
	Infrastructure				4,218	0			ļ			Ì
SQL Server Standard - Per Processor												
(4 cores) - Purchased Sept 2016-Aug												
2017 - Includes Maintenance thru Aug												Ì
2019	Infrastructure				6,398	0						
SQL Server Standard - Per Processor												
(4 cores) - Purchased Sept 2017-Aug												l
2018 - Includes Maintenance thru Aug												ł
2019	Infrastructure				5,414	0						
SQL Server Standard - Per Processor												
(4 cores) - Purchased Sept 2018-Aug												ł
2019 - Includes Maintenance thru Aug												
2019	Infrastructure				4,429	0						ł
SQL Server - Standard Maintenance,												
Per Processor (4 cores) - Sept 2019									ļ		ļ	Ì
	Infrastructure				1,100	0					_ [	
Websphere Basic Per Processor											I	
Single/Dual Core - Includes Year 1								1	i		İ	İ
Maintenance	Infrastructure				3,506	0					<u> </u>	

								Af	ects	s Pro	ject	ROI?
	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
Weberberg Desig Der Dresser												l
Websphere Basic Per Processor	Information at the				704	0				ļ		
	Infrastructure				701	0						_
Websphere ND Per Processor												
Single/Dual Core - Includes Year 1					10,100	0						
Maintenance	Infrastructure				13,180	0				_	_	
										ļ		
Websphere ND Per Processor					0.005					ļ		
<b>J</b>	Infrastructure				2,635	0						
SSL Certificate	Infrastructure				845	0						
Internet Access	Infrastructure				180	0		ļ į			_	
Imperva Web Application Firewall										ļ		
(External Web Applications Only)	Infrastructure		ANN		500	0			ĺ			
App Code Directories on Consolidated										ļ		
IIS Server (Virtual)	Infrastructure		ANN		415	0						
Database (5 GB) on Consolidated SQL												
Instance Server	Infrastructure		ANN		930	0			į	1	I	
Database Instance (125 GB DB) on												
Consolidated SQL Server	Infrastructure		ANN		2,395	0				ł		
Database SQL Maint Server	Infrastructure		ANN		834	0						
Database SQL Server Physical	Infrastructure		ANN		19,158	0						
DB Maintenance (Annual Cycle \$610)	Infrastructure		ANN		610	0						
DB Maintenance (Semi-Annual Cycle										Ì		
\$1220)	Infrastructure		ANN		1,220	0						
DB Maintenance (Semi-Annual Cycle												
\$2440)	Infrastructure		ANN		2,440	0			į			
Dedicated Virtual Server	Infrastructure		ANN		4,150	0						
DB Instance Setup	Infrastructure				976	0						
DBA MS SQL Database Creation on												
Exisiting Instance	Infrastructure				366	0						
										Ť		
Extra Small - 2 Core 8GB RAM, 500GB											ļ	
Drive, 10 GB NIC - Cloud/Virtual = \$601												
On Premise Physical Server = $N/A$	Infrastructure		ANN			0						

								Aff	ects	s Pro	ject	ROI?
Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual 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 Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual =	Infrastructure		ANN			0						
\$1,702 On Premise Physical Server = \$9,751 Large - 16 Core 64GB RAM, 500GB	Infrastructure		ANN			0						
Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server =	Infrastructure		ANN			0						
Extra Large - 40 Core 160GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server =			ANN			0						
Project Staff Training	Training		AININ			0					-	—
User Training	Training					0						

			Poter	tial Cost E	Extensions		
	Project Cost						
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development 2023	Development Svcs	16,500	16,748				
IT Hours - Customer Support	Development Svcs						
IT Hours - Planned Maintenance	Development Svcs						
User Hours - New Development	Development Svcs						
User Hours - PTNE/OT	Development Svcs					1 1 1	
Contractor Professional Services	Development Svcs						
PC System - Acquisition	Hardware						
PC System - Maintenance	Hardware						
Notebook - Acquisition	Hardware		l				
Notebook - Maintenance	Hardware						
Tablet Notebook - Acquisition	Hardware						
Tablet Notebook - Maintenance	Hardware		Ì				
Laserprinter - Acquisition	Hardware						
Laserprinter - Maintenance	Hardware						
Image Workstations - Acquisition	Hardware						
Image Workstations - Maintenance	Hardware						
PC Maintenance User Owned	Hardware						
Printer Maintenance User Owned	Hardware						
File Space (100GB)	Hardware						
Internet Bandwidth per MB	Hardware						
Package Software - Acquisition	Software						
Package Software - Maintenance	Software						
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					1	
Server Sftwre - Maintenance	Infrastructure						
Server Rack Mount	Infrastructure						1
Oracle Enterprise Per Processor -			İ				1
Includes Year 1 Maintenance	Infrastructure						
Oracle Enterprise Per Processor - Year							1
2 and Beyond	Infrastructure						

			Pote	ential Cost E	xtensions		
	Project Cost			1			
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							
2019	Infrastructure						
SQL Server Enterprise - Per Processor					ļ		
(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					1		
2019	Infrastructure						
SQL Server Enterprise - Maintenance,							
Per Processor (4 cores) - Sept 2019							
and Beyond	Infrastructure						
SQL Server Standard - Per Processor							
(4 cores) - Purchased Sept 2016-Aug					Į		
2017 - Includes Maintenance thru Aug							
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			<u> </u>			
Websphere Basic Per Processor							
Single/Dual Core - Includes Year 1				1			
Maintenance	Infrastructure						

			Pot	ential Cost E	xtensions		
	Project Cost		No	Vo	×4		Vo
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
Websphere Basic Per Processor							
Single/Dual Core - Year 2 and Beyond	Infrastructure			_			
Websphere ND Per Processor							
Single/Dual Core - Includes Year 1						1	
Maintenance	Infrastructure						
						1	
Websphere ND Per Processor	In free a firm of the sec						
Single/Dual Core - Year 2 and Beyond	Infrastructure						
SSL Certificate	Infrastructure			_		<u> </u>	
Internet Access	Infrastructure		i 1 1		Į	Į	
Imperva Web Application Firewall						1	
(External Web Applications Only)	Infrastructure				<u> </u>		
App Code Directories on Consolidated							
IIS Server (Virtual)	Infrastructure				Į	ļ	
Database (5 GB) on Consolidated SQL							
Instance Server	Infrastructure						
Database Instance (125 GB DB) on							
Consolidated SQL Server	Infrastructure						
Database SQL Maint Server	Infrastructure						
Database SQL Server Physical	Infrastructure						
DB Maintenance (Annual Cycle \$610)	Infrastructure						
DB Maintenance (Semi-Annual Cycle							
\$1220)	Infrastructure						
DB Maintenance (Semi-Annual Cycle							
\$2440)	Infrastructure						
Dedicated Virtual Server	Infrastructure						
DB Instance Setup	Infrastructure						
DBA MS SQL Database Creation on							
Exisitng Instance	Infrastructure						
Extra Small - 2 Core 8GB RAM, 500GB					ł	1	
Drive, 10 GB NIC - Cloud/Virtual = \$601							
On Premise Physical Server = N/A	Infrastructure			l		l	

			Pote	ntial Cost Ex	tensions		
Cost Description	Project Cost Category	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						
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						
Project Staff Training	Training						
User Training	Training						

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development 2023	16,500	16,748					33,248
IT Hours - Customer Support							
IT Hours - Planned Maintenance							
User Hours - New Development							
Development Services Subtotal:	16,500	16,748					33,248
Hardware:							
Hardware Subtotal:							
Software:							
Software Subtotal:							
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	16,500	16,748					33,248

#### Oakland County Citizen Engagement Budget - Land

Return on Investment Analysis

Assumptions

Date	Assumption Description
28-Apr-22 200 Total hours; Split 100 in each Master Plan year	
207.0122	