Project Name: CAMS Public Request Portal 2023-2024 Project ID: D14182PP

Leadership Group: Land										
<b>Department:</b> Information Technology		Division: Application Services								
Project Sponsor: Tammi Shepherd	Date Requeste	<b>d:</b> 4/21/2022	PM Custome	er No. 182						
Request Type: <u>New Development</u>	<u>nt</u> En	hancement	Customer S	Support						
Planned Sys	stem Maintenanc	e or Upgrade								
IT Team Name: Infrastructure and GIS		IT Team No: 1								
Project Manager/Leader: Dennis Faus	stich									
Account Account Number: 65901 Description:	: CAMS		Customer Name:	Collaborative Asset Management System						
Grant Funded? Yes <u>No</u>		ndate? Yes	<u>No</u>							

### **Project Goal**

To implement a request portal system so that Oakland County CAMS participants can engage local residents and employees, improve and expand data collection and maximize workflow efficiencies through an integrated solution.

# **Business Objective**

Engage local communities, residents and Oakland County employees by implementing a mobile-friendly request portal solution that integrates with the Oakland County Collaborative Asset Management System.

#### **Major Deliverables**

- Detailed Project Plan
- Gather Application and System Requirements
  - o End User Hardware and Software Requirements Document
  - System Design Document
  - Application Architecture Diagram
- Install and Configure Vendor software
- Design and Implement County Boundary GIS layer
- User Training Plan
- User Acceptance Test Plan
- Implementation Plan
- Training/User Manual(s)
- Disaster Recovery Toolkit
- Service Center Knowledge Documents
- Implement into Production

Project Name: CAMS Public Request Portal 2023-2024 Project ID: D14182PP

#### Approach

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

# Research & Analysis

Gartner Research Recommendation – N/A

# **Benefits**

See Return on Investment (ROI) Analysis Document

Project Name: CAMS Public Request Portal 2023-2024 Project ID: D14182PP

**Impact** 

Number of Users CAMS Users and Public

**Divisions** WRC, RCOC and Facilities Management

Leadership Groups Land

**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.

Other Staffing: additional staffing will be available as follows:

Role: Name Hours per Day

Project Sponsor: Tammi Shepherd As Needed

**Facilities** 

•

#### **Technical**

- Project will utilize Esri's Crowdsourcing application along with Cityworks' Web Hooks functionality.
- Cityworks Web Hook functionality requires CAMS to be at v15.x or higher

Project Name: CAMS Public Request Portal 2023-2024 Project ID: D14182PP

### **Funding**

• Funded – CAMS Program

#### Other

•

### **Priority**

# **Constraints**

- •
- •

# **Exclusions**

- The implemented solution is for requests only within the Oakland County borders and for the participating departments that utilize the Oakland County CAMS Application
- System will only support Non-emergency requests

**Project Name: CAMS Public Request Portal 2023-2024** Project ID: D14182PP

#### PROJECT PHASE AUTHORIZATION

FROJECT FILASE AUT	HORIZATION								
Phase(s):									
Total Estimated Application Services	<b>Hours:</b> 790								
Total Estimated Technical Systems	Hours: 12								
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:								
Previously Authorized Development	Hours:								
Dualinainam Estimated David amount for Entire Disease	Harrie								

Authorized Development (see above)	Hours:	
Previously Authorized Development	Hours:	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 802	Cost: \$132,330

Project Name: CAMS Public Request Portal 2023-2024 Project ID: D14182PP

#### PROJECT COMPLETION AUTHORIZATION

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

CAMS Public Request Portal 2023-2024 - Size Estimate (+/- 10% to 50%)

1 Type	ID	Task Name	Estimated
2			Hours
3 3	000000	PROJECT MANAGEMENT	215
<sup>4</sup> Phase	200000	DEFINE BUSINESS REQUIREMENTS	53
5 Phase	300000	DESIGN SYSTEM ARCHITECTURE	24
6 Phase	500000	DEVELOP APPLICATION	346
7 Phase	600000	IMPLEMENTATION PHASE	118
8 Phase	800000	POST IMPLEMENTATION SUPPORT	46
9			802

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:	5,200	5,200	5,200	5,200	5,200	5,200	31,200
Costs:							
Development Services Subtotal:	148,830	18,150	19,965	21,962	24,158	26,573	259,638
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	5,200	5,200	5,200	5,200	5,200	5,200	31,200
Annual Total Costs	148,830	18,150	19,965	21,962	24,158	26,573	259,638
Annual Return on Investment	(143,630)	(12,950)	(14,765)	(16,762)	(18,958)	(21,373)	(228,438)
Annual Costs/Savings Ratio	2862.12%	349.04%	383.94%	422.34%	464.57%	511.03%	(===, ===)
Project Cumulative Statistics:							
Cumulative Total Savings	5,200	10,400	15,600	20,800	26,000	31,200	31,200
Cumulative Total Costs	148,830	166,980	186,945	208,907	233,064	259,638	259,638
Cumulative Return on Investment	(143,630)	(156,580)	(171,345)	(188,107)	(207,064)	(228,438)	(228,438)
Cumulative Cost/Savings Ratio	2862.12%	1605.58%	1198.37%	1004.36%	896.40%	832.17%	832.17%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							NOTATION
Signatures:							
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
Improves communication with local							
	Intangible Benefit					0	
Expands data collection and analysis of							
	Intangible Benefit					0	
Centralizes and streamlines work							
management	Intangible Benefit					0	
RCOC's Call Center will save approximately 1 hr /day (260 hrs /yr) by reducing the amount of phone calls and							
	Cost Avoidance		HR	260	20	5,200	
WRC staff will save a, to be							
determined, amount of time by reducing							
the amount of phone calls and email							
received from residents.	Intangible Benefit					0	
						0	
						0	
			1			0	
			1			0	
						0	
			1			0	
						0	
			1			0	
						0	
						0	
						0	
						0	
						0	

Return on Investment Analysis

#### Savings Detail

		Affects Project ROI? Potential Savings Extensions											
Benefit/Savings Description	Project Savings Category	Y1	Y2	Υ3	Y4	Y5	Y6	Y1	Y2	<b>Y</b> 3	Y4	Y5	Y6
Improves communication with local			į	!	Ī	Ī	Ī						
	Intangible Benefit	х	Х	Х	Х	Х	Х	0.00	0.00	0.00	0.00	0.00	0
Expands data collection and analysis of			1	}	1	-	ł						
	Intangible Benefit	Х	Х	Х	Х	Х	х	0.00	0.00	0.00	0.00	0.00	0
Centralizes and streamlines work							İ						
management	Intangible Benefit	х	Χ	Х	Х	Х	Χ	0.00	0.00	0.00	0.00	0.00	0
RCOC's Call Center will save approximately 1 hr /day (260 hrs /yr) by reducing the amount of phone calls and													
emails received from residents.	Cost Avoidance	Х	Х	Х	Х	Х	Х	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00	5,200
WRC staff will save a, to be determined, amount of time by reducing the amount of phone calls and email													
received from residents.	Intangible Benefit		<u> </u>	<u> </u>	<u>i</u>	<u>i</u>	<u>i                                      </u>						
			<u> </u>		<u> </u>	<u> </u>	į						
			<u> </u>	<u> </u>	ļ	<u> </u>	<u> </u>						
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			<u> </u>		<u> </u>	<u> </u>	1						
			<u>i                                     </u>	<u> </u>	į_	<u>i</u>	<u> </u>	1					
			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						
			<u>!</u>	<u> </u>	<u>!</u>	<u>i                                      </u>	<u>i</u>	<u> </u>					

Return on Investment Analysis

### Savings Summary

	Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Та	ngible Benefit:							
	Tangible Benefits Subtotal:							
Cc	est Avoidance:							
	RCOC's Call Center will save approximately							
	1 hr /day (260 hrs /yr) by reducing the							
	amount of phone calls and emails received							
	from residents.	5,200	5,200	5,200	5,200	5,200	5,200	31,200
								24.000
	Cost Avoidance Subtotal:	5,200	5,200	5,200	5,200	5,200	5,200	31,200
Int	angible Benefit:							
	Improves communication with local residents							
	and County employees	0	0	0	0	0	0	
	Expands data collection and analysis of							
	assets	0	0	0	0	0	0	
	Centralizes and streamlines work							
	management	0	0	0	0	0	0	
	WRC staff will save a, to be determined,							
	amount of time by reducing the amount of							
	phone calls and email received from							
	residents.							
Sa	vings Total:	5,200	5,200	5,200	5,200	5,200	5,200	31,200

Return on Investment Analysis

#### Cost Detail

								Αf	fect	t RC	OI?		
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual			<del></del>			
Cost Description	Category	Source	Desc	Units	Unit	<b>Total Cost</b>	Multiplier	<b>Y</b> 1	Y2	<b>Y3</b>	<b>Y</b> 4	Y5	Y6
IT Hours - New Development	Development Svcs		HR	802	165	132,330		Х		1			
IT Hours - System Maintenance	Development Svcs		HR	25	165	4,125	1.100			Х	Х	Х	Х
IT Hours - Customer Support	Development Svcs		HR	50	165	8,250	1.100		Х	Х	Х	Х	Х
IT Hours - Planned Maintenance	Development Svcs		HR	25	165	4,125	1.100	Х	Х	Х	Х	Х	Х
User Hours - New Development	Development Svcs					0					-	•	
User Hours - PTNE/OT	Development Svcs					0				į		į	
Contractor Professional Services	Development Svcs					0				Ī		•	
PC System - Acquisition	Hardware				639	0				Ī			
PC System - Maintenance	Hardware				3,352	0				Ĭ			
Laptop - Acquisition	Hardware				922	0				Ī			
Laptop - Maintenance	Hardware				3,352	0							
Tablet Notebook - Acquisition	Hardware				1,069	0				•		1	
Tablet Notebook - Maintenance	Hardware				3,352	0				į		į	
File Space (100GB)	Hardware		ANN		23	0				Ī		•	
Package Software - Acquisition	Software					0				Ī			
Package Software - Maintenance	Software					0				ì			
Business Objects Access	Software					0				Ī		ĺ	
Term Emulation SFTW-Acquisition	Software					0							
Term Emulation SFTW-Maintenance	Software					0							
Oracle Enterprise Software Purchase -										į		į	
Per Processor (4 Cores) - Requires									İ	į	İ	į	
Annual Support Below	Infrastructure				42,280	0			İ	ĺ	1	ĺ	
Oracle Enterprise Software Support -										Ĭ		ĺ	
Per Processor (4 Cores)	Infrastructure				9,293	0	1.030		İ	į	•	į	
SQL Server Enterprise Software										Ī		1	
Purchase - Per Processor (4 cores) -									•	į	-	•	
Purchased Sept 2019-Aug 2020 -										į		į	
Includes Support thru Aug 2022	Infrastructure				16,985	0			İ	į	1	į	
SQL Server Enterprise Software									ļ	ŀ		1	
Purchase - Per Processor (4 cores) -									<u> </u>		į		
Purchased Sept 2020-Aug 2021 -										į	1	!	!
Includes Support thru Aug 2022	Infrastructure				12,724	0			į	<u>i                                    </u>	<u>i                                      </u>	<u>i                                    </u>	<u>i</u>

Return on Investment Analysis

#### Cost Detail

								Aff	fect	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
SQL Server Enterprise Software												
Purchase - Per Processor (4 cores) -								li			į	
Purchased Sept 2021-Aug 2022 -								li			ı	
Includes Support thru Aug 2022	Infrastructure				8,463	0					- 1	İ
SQL Server Enterprise - Support, Per											Į	
Processor (4 cores) - Sept 2022 and								li			- 1	
Beyond	Infrastructure				4,261	0		li			ı	
SQL Server Standard Software												
Purchase - Per Processor (4 cores) -								li			į	
Purchased Sept 2019-Aug 2020 -								li			ı	
Includes Support thru Aug 2022	Infrastructure				4,429	0		j				
SQL Server Standard Software												
Purchase - Per Processor (4 cores) -								li			į	
Purchased Sept 2020-Aug 2021 -								li			- 1	İ
Includes Support thru Aug 2022	Infrastructure				3,317	0					į	
SQL Server Standard Software								li			į	
Purchase - Per Processor (4 cores) -								li			į	İ
Purchased Sept 2021-Aug 2022 -											- 1	
Includes Support thru Aug 2022	Infrastructure				2,205	0						
SQL Server - Standard Support, Per								li				
Processor (4 cores) - Sept 2022 and											- 1	İ
Beyond	Infrastructure				1,112	0						
Websphere Basic Per Processor								li			į	
Single/Dual Core - Includes Year 1								li			ı	
Maintenance	Infrastructure				3,769	0					!	
								li			į	
Websphere Basic Per Processor								li			ı	
Single/Dual Core - Year 2 and Beyond	Infrastructure				754	0					!	
Websphere ND Per Processor											- 1	
Single/Dual Core - Includes Year 1								li			- 1	
Maintenance	Infrastructure				14,170	0					i	
								]			Ī	
Websphere ND Per Processor											- 1	
Single/Dual Core - Year 2 and Beyond	Infrastructure				2,835	0						
SSL Certificate	Infrastructure				910	0						

Return on Investment Analysis

#### Cost Detail

								Af	Affects Project F		t RO	1?	
Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Y1	<b>Y2</b>	<b>Y</b> 3	Y4	Y5	Y6
Internet Access	Infrastructure				190	0				ŀ	ļ	ŀ	
- 11	Infrastructure		ANN		500	0							
App Code Directories on Consolidated IIS Server (Virtual)	Infrastructure		ANN		446	0							
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = \$2,735	Infrastructure		ANN			0							
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$3,057	Infrastructure		ANN			0							
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$8,715	Infrastructure		ANN			0							
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,758	Infrastructure		ANN			0							
Extra Large - 40 Core 192GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$24,137	Infrastructure		ANN			0							

Return on Investment Analysis

#### Cost Detail

		Potential Cost Extensions					
	Project Cost						
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs	132,330.00					
IT Hours - System Maintenance	Development Svcs	4,125.00	4,537.50	4,991.25	5,490.38	6,039.41	6,643.35
IT Hours - Customer Support	Development Svcs	8,250.00	9,075.00	9,982.50	10,980.75	12,078.83	13,286.71
IT Hours - Planned Maintenance	Development Svcs	4,125.00	4,537.50	4,991.25	5,490.38	6,039.41	6,643.35
User Hours - New Development	Development Svcs	İ	ĺ				
User Hours - PTNE/OT	Development Svcs						
Contractor Professional Services	Development Svcs						
PC System - Acquisition	Hardware						
PC System - Maintenance	Hardware	ļ					
Laptop - Acquisition	Hardware	ļ.					
Laptop - Maintenance	Hardware	i					
Tablet Notebook - Acquisition	Hardware	İ					
Tablet Notebook - Maintenance	Hardware	!					
File Space (100GB)	Hardware	į.					
Package Software - Acquisition	Software	İ					
Package Software - Maintenance	Software	ŀ					
Business Objects Access	Software	ļ					
Term Emulation SFTW-Acquisition	Software	i					
Term Emulation SFTW-Maintenance	Software	İ	ĺ				
Oracle Enterprise Software Purchase -							
Per Processor (4 Cores) - Requires							
Annual Support Below	Infrastructure	l					
Oracle Enterprise Software Support -		ŀ					
Per Processor (4 Cores)	Infrastructure						
SQL Server Enterprise Software							
Purchase - Per Processor (4 cores) -			j				
Purchased Sept 2019-Aug 2020 -							
Includes Support thru Aug 2022	Infrastructure						
SQL Server Enterprise Software							
Purchase - Per Processor (4 cores) -			Ì				
Purchased Sept 2020-Aug 2021 -							
Includes Support thru Aug 2022	Infrastructure						

Return on Investment Analysis

#### Cost Detail

	Potential Cost Extensions							
	Project Cost		1	1	1	<u>,                                     </u>	:	
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6	
SQL Server Enterprise Software			ł	:	:	:	:	
Purchase - Per Processor (4 cores) -						<u> </u>		
Purchased Sept 2021-Aug 2022 -				ļ	ļ		ļ	
Includes Support thru Aug 2022	Infrastructure			•	•	!	•	
SQL Server Enterprise - Support, Per						İ		
Processor (4 cores) - Sept 2022 and						<u> </u>		
Beyond	Infrastructure							
SQL Server Standard Software			İ	<u> </u>	<u> </u>		<u> </u>	
Purchase - Per Processor (4 cores) -			Ì					
Purchased Sept 2019-Aug 2020 -								
Includes Support thru Aug 2022	Infrastructure			•	•	!	•	
SQL Server Standard Software								
Purchase - Per Processor (4 cores) -			-					
Purchased Sept 2020-Aug 2021 -								
Includes Support thru Aug 2022	Infrastructure			•	•	!	•	
SQL Server Standard Software						İ		
Purchase - Per Processor (4 cores) -						!		
Purchased Sept 2021-Aug 2022 -				•	•	!	•	
Includes Support thru Aug 2022	Infrastructure		į	İ	İ	İ	į	
SQL Server - Standard Support, Per			!	!	!		!	
Processor (4 cores) - Sept 2022 and								
Beyond	Infrastructure			İ	İ	į	İ	
Websphere Basic Per Processor			i	!	!	! !	!	
Single/Dual Core - Includes Year 1								
Maintenance	Infrastructure			•	•		•	
			i i	i !	i !	ļ	i i	
Websphere Basic Per Processor								
Single/Dual Core - Year 2 and Beyond	Infrastructure			•	•	!	•	
Websphere ND Per Processor								
Single/Dual Core - Includes Year 1						!		
Maintenance	Infrastructure		ļ					
				Ī	Ī	1	Ī	
Websphere ND Per Processor			ļ			!		
Single/Dual Core - Year 2 and Beyond	Infrastructure		<u> </u>			<u> </u>		
SSL Certificate	Infrastructure		<u> </u>			<u> </u>		

Return on Investment Analysis

#### Cost Detail

		Potential Cost Extensions						
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6	
Internet Access	Infrastructure		] 	!	<u> </u>	<u> </u>	:	
Imperva Web Application Firewall (External Web Applications Only) App Code Directories on Consolidated IIS Server (Virtual)	Infrastructure Infrastructure							
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = \$2,735	Infrastructure							
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$3,057	Infrastructure							
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$8,715	Infrastructure							
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,758	Infrastructure							
Extra Large - 40 Core 192GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$24,137	Infrastructure							

Return on Investment Analysis

### **Cost Summary**

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	132,330						132,330
IT Hours - System Maintenance	4,125	4,538	4,991	5,490	6,039	6,643	31,827
IT Hours - Customer Support	8,250	9,075	9,983	10,981	12,079	13,287	63,654
IT Hours - Planned Maintenance	4,125	4,538	4,991	5,490	6,039	6,643	31,827
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	148,830	18,150	19,965	21,962	24,158	26,573	259,638
Hardware:							
Hardware Subtotal:							
Software:							
Software Subtotal:							
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	148,830	18,150	19,965	21,962	24,158	26,573	259,638

# Oakland County -- CAMS Public Request Portal 2023-2024 Return on Investment Analysis

### Assumptions

Date	Assumption Description
	The implemented solution is for requests only within the Oakland County borders and for the participating departments that utilize the
18-Apr-22	Oakland County CAMS Application
18-Apr-22	CAMS needs to be upgraded to 15.7.x to take advantage of Esri web hooks
10 / (p) 22	Crimo neede to so apgraded to 10.7.5 to take davanage of Edit was neede