

Stage 2 Preliminary Assessment

Department of Technology, SIMM 19B, Revision 7/1/2015

Agency or State Entity Name:				
Technology, Department of				
Organization Code:				
7502				
Proposal Name:				
Oceanic Intrusive Species Program Database Upgra	ade			
partment of Technology Project Number: 7502-999				
2.2 Preliminary Submittal Inform	mation			
Contact Information:				
Contact First Name:	Contact Last Name:			
Jeanne	Smith			
Contact Email:	ntact Email: Contact Phone Number:			
Jeanne.Smith@state.ca.gov	(916) 999-9999			
Preliminary Submission Date:				
7/13/2015				
Preliminary Project Approval Executive Transmittal	: Any Dept 7502-999 Oceanic Intrusive Species Program DB Upgrade PrelimTransmittal 201512.pdf Adobe Acrobat Document 243 KB			
2.3 Stage 2 Preliminary Assessm	nent			
2.3.1 Impact Assessment		Yes	No	
1. Has the Agency/state entity identified and committed subject matter experts from all business sponsors and key stakeholders?				
 Are all current baseline systems that will be impa (e.g., data classification and data exchange agreeme documents, data flow diagram, data dictionary, appl 	nts, privacy impact assessments, design			
3. Does the Agency/state entity anticipate needing s Statewide Technology Procurement Division to cond Survey, Request for Information)?				

activities of this proposal?						
5. Could this proposal involve the development and/or purchase of systems to support activities included in Financial Information System for California (FI\$CAL) (e.g., financial accounting, asset management, human resources, procurement/ordering, inventory management, facilities management)?						
6. Does the Agency/state entity development of baseline and alt				chitect to lead the		
7. Will the Agency/state entity's Information Security Officer be involved in the development and review of any security related requirements?						
8. Does the Agency/state anticip propose a solution?	ate performing a b	usiness-based pr	ocurement to l	nave vendors		
2.3.2 Business Complexity	/ Assessment					
Business Complexity: 1.3	Business Com	plexity Zone:	High	Medium		w
2.4 Submittal Infor		m Preliminary S	ubmittal Inforr	nation [])		
Contact First Name:		ntact Last Name:		nution ())		
Jeanne	Sm					٦
Contact Email:	Cor	ntact Phone Num	ıber:			_
Jeanne.Smith@state.ca.gov	(91	6) 999-9999				
Submission Date: 11/20/2015						
Submission Type:						
New Submission						
		Updated Submiss	sion (Post-Appr	oval)		
Updated Submission (Pre-Ap		Jpdated Submiss Withdraw Submi		oval)		
	nsmittal:		ceanic ram DB insmittal	oval)		
Updated Submission (Pre-Approval Executive Transport Approval Executive Tr	nsmittal:	Withdraw Submi Withdraw Submi propert 7502-999 Out prusive Species Prog pgrade Executive Tra 01512.pdf dobe Acrobat Docum	ceanic ram DB insmittal	oval)		
Project Approval Executive Trar	nsmittal:	Withdraw Submi Withdraw Submi propert 7502-999 Out prusive Species Prog pgrade Executive Tra 01512.pdf dobe Acrobat Docum	ceanic ram DB insmittal	oval)		
Project Approval Executive Tran	sproval)	Withdraw Submi	ceanic ram DB insmittal	oval)		
Project Approval Executive Trar Condition(s) from Previous Stag Condition #	smittal:	Withdraw Submi	ceanic ram DB insmittal	oval)		

	Project must be managed by a qualified Project Manager provided by CA Government Agency or the Statewide Project Management Office.						
Assessment	Transfer						
Agency/state Entity Response	A CA Government Agency Project Manager has been assigned to the project.						
Status	Completed						
Condition #	2						
Condition Category	Organizational Readiness						
Condition Sub-Category	General						
Condition	Organizational Readiness Self-Assessment provide Technology must be completed. This condition wa of Technology, Information Technology Project Ov on October 15, 2015.	as waived by Department					
Assessment	Mitigation						
Agency/state Entity Response	Department has requested the Organizational Rea from Department of Technology and are still waiti						
Status	Completed						

2.5 Baseline Processes and Systems

2.5.1 Description

Currently, the California Department of Oceanic Control (Department) Oceanic Facilities Division (OFD) is charged with oversight of the state's Oceanic Intrusive Species Program (OISP) to prevent the introduction of non-native plants and animals from commercial ships.

The current OISP application is a custom developed web-based application with approximately 40 active Department users. The major modules of the current application are:

- Vessel Schedule: provides functions and data associated with identifying vessels that arrive at California ports for inspection purposes;
- Browse Vessel: provides functions and data associated with vessel information and history such as port arrival history, ballast water and biofouling management history, and inspection history;
- Working Inspections: provides functions and data associated with tracking inspection of a vessels, includes a workflow queue associated with specific user roles in the system;
- Reports: contains five reports that may be selected and generated for the user; and,
- Administrative: allows for user creation and maintenance, creation and assignment of users roles and permissions, and entity and contact creation and maintenance.

The existing manual OISP processes include collection, data entry, reconciliation, analysis, and storage of approximately 10,500 complex vessel-submitted reporting forms annually. This labor intensive process uses 3.7 PYs annually (over 6700 staff hours) to accomplish the Program's legislatively mandated responsibilities, diverting staff resources from other programmatic requirements. The current process results in the need to store and maintain approximately 30,000 pages annually due to legal requirements; the current year (e.g. 2015) along with seven previous years (e.g. 2008 - 2014) of reports are required to be stored onsite. Significant onsite storage requirements are necessary to accommodate the retention of these reports. Additionally, older records, dating back to the inception of the program (January 2000), must be archived off-site in perpetuity.

The current system provides the ability to collect data, but due to the labor intensive nature of the current process, staff have difficulty retrieving data in a timely fashion to provide accurate, near real-time information for a variety of internal and external reporting purposes (e.g. legislative reports, stakeholder requests for data,

compliance monitoring). Upgrading the OISP database will improve efficiency allowing the redirection of staff to other program objectives (e.g. compliance assessment and enforcement of new regulations) and system support. 2.5.2 Business Process Workflow File Attachment 2.5.3 Current Architecture Information **Business Function/Process(es)** Collect and Report OISP data Application, System or OISP System Component: COTS, MOTS or Custom: Custom Application Name/Primary Visual Basic .Net Framework version 4 Technology: **Runtime Environment Cloud Computing Used?** □Yes □No If "Yes", Specify: Select ... Server/Device Function: Production and Test - WebApp Server SQL Server Hardware: VMWare at CGA **Operating System:** Windows 2008 R2 System Software: IIS and SQL Server 2008 R2 System Interfaces: Data Center Location: Agency/State Data Center Operated by Agency/state entity Security Access: Public
Internal State Staff
External State Staff (check all that apply) Other, specify: Type of Information: Personal Health Tax Financial Legal Confidential (check all that apply) Other, specify: Public **Protective Measures:** Technical Security Identity Authorization and Authentication (check all that apply) Physical Security Backup and Recovery Other, specify: **Data Management** Name: Data Owner Olivia Morrow Title: Environmental Program Manager **Business Program:** Oceanic Intrusive Species Program Name: Data Custodian Alex Bradley Title: **Chief Information Officer Business Program:** Information Services Section (ISS) 2.5.4 Current Architecture Diagram

File Attachment	gorization Impact Table		
			v
SECURITY	SECURITY CATEGORIZATION		HIGH
OBJECTIVE			
Confidentiality			
Integrity			
Availability			
2.6 Mid-Level	Solution Requiremen	ts	
Requirements:	I File Attachment		
2.7 Assumption	ons and Constraints		
Assur	nptions/Constraints	Description/P	otential Impact
The project receives t	he funding requested.	Department and Departm and commit the funding r	
Maritime industry wil	l support and utilize this solution.	The maritime industry is a process, and their support successfully meet objective	t is required for project to
Project will continue t Department.	to be a high priority for	The priority of this project at that level for the durat	t is high, and it will remain ion of the project.
Technology is availabl	e to create a solution.	The appropriate technolo used in the development project.	gy is available and will be and implementation of the
Oceanic Intrusive Spetthe OISP project.	cies Control Fund (OISCF) will fund	Oceanic Intrusive Species provide the appropriate le for the OISP project.	
Leverage existing infra	astructure.	This project will leverage infrastructure used by the application.	
Existing database will	be used.	The existing database use application will be used an required for this project.	
Project resources are activities.	available and engaged in project	The resources required fo in a timely manner and ar activities.	r this project are available e engaged in project
Application is hosted	in Tier III data center.	All public facing applicatic Tier III or equivalent data	
Application and busin	ess process is not mission critical.	The application and busin mission critical.	ess processes are not

2.8 Dependencies

Element

Define the unique classification required for each external entity.

The Assumptions and Constraints are also dependencies for this project and must be addressed correctly and in a timely manner to ensure project success.

2.9 Market Research

2.9.1 Market Research Methodologies/Timeframes

Methodologies used to perform market research (check	k all that apply):				
Request for Information (RFI)	☐ Trade shows				
Internet Research	☐ Published Literature				
Vendor Forums/Presentation	Leveraged Agreements				
Collaboration with other Agencies/state entities or	☐ Other, specify:				
governmental entities					
Time spent conducting market research:	<u>3 months</u>				
Date market research was started:	3/30/2015				
Date all market research was completed:	6/26/2015				
2.9.2 Results of Market Research					

2.10 Alternative Solutions

2.10.1 Solution Type

Recommended

Alternative

2.10.2 Name

Implement a MOTS in a SaaS environment to add external facing, web-based portal.

2.10.3 Description

Engage an external vendor to configure and implement a solution which will add an external, web-based portal to the OISP application that will enable external entities to enter data into the OISP application. This alternative would be the implementation of a MOTS in a SaaS environment, and would provide the ability to configure the solution to meet Department requirements.

(Note: Alternative 1 in FAW)

Approach (check all that apply)

Increase staff - new or existing capabilities

 \square Modify the existing business process or create a new business process

Reduce the services or level of services provided

Utilize new or increased contracted services

Description

Identify unique user name and profile content for the external users of the application.

Enhance the existing IT system

Create a new IT system

Perform a business-based procurement to have vendors propose a solution

Other, specify:

2.10.4 Benefit Analysis

Benefits/Advantages

The SaaS services being considered are encouraged by Department of Technology and supports the "Cloud First" directive.

This solution meets the strategic direction of the Department ISS Enterprise Architecture.

MOTS/SaaS leverages a ready-made platform, which has already been provisioned, implemented, and tested by the SaaS provider. Most modifications would be configurations with little/no specialized coding required.

External (public) access is managed by the service, so there is not a need to set up a DMZ and maintain firewall rules. Solution would meet all security protocols set forth in SIMM, Section 5300, California Government Code 11546.1, and NIST.

The system is fully hosted in a government approved Cloud data center, therefore the cost for internal resources to support the application will be very low compared to the other alternatives.

The SaaS service enables operational agility to decouple different elements of the application in different environments and interoperability to interface with and deliver bi-directional data exchange with state-owned systems allowing the Department to control its data.

The solution would use an on-premise foundation combined with strategic use of SaaS to obtain the best value for the funds expended and provide scalability as demands increase with a one-time initial investment.

SaaS services would provide an environment that supports the Department IT staff learning and understanding the technology and being able to provide support for a public facing web-system.

The solution reduces implementation risks and user acceptance failure by leveraging industry best practices based on the vendor's business experience.

Disadvantages

The solution may required additional development/configuration because of the integration between the existing database and new application infrastructure.

The solution may not address all of Department requirements.

Since the solution is an out-sourced SaaS solution, the ongoing licensing cost is higher than other alternatives.

Department's resources are not familiar with this type of technology, so additional time may be required because of the learning curve. Current Department IT staff do not have the knowledge, skills, or experience to develop a public facing web application environment.

Anticipated Time to Achieve Objectives After Project Go-Live

Objective Number	Within 1 Year	2 Years	3 Yea	rs	4 Years	Over 4 Years
1.1						
1.2						
1.3						
2.1			Π			
3.1		Π	 			
4.1	П	П	П		Π	
5.1		Н	— П			
6.1					, 	
	Anticipated Tir	meto Achieve	Financial Bene	its After Proj	ect Go-live	
Financial Benefit	-	hin 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Increased Revenue	25	н	Н	н	Н	
Cost Savings						
Cost Avoidance						
Cost Recovery		П	П	П	П	n l
	tions and Constra	aints	_	—	_	_
requirements as ki 2.10.6 Impleme Identify the type o Enhance the cu Develop a new Purchase a Con Purchase or obt Subscribe to a S Other, specify: Identify cloud serv Software as a S Software as a S Platform as a Se Infrastructure a Infrastructure a	entation Approac f existing IT system rrent system	ch enhancement of (COTS) system other govern (Saas) system (check all that ed by OTech ed by Commerce d by Commerce ovided by CTech by ided by Commerce ovided by commerce	or new system m ment agency (T t apply): cial vendor cial vendor ch mercial vendor	proposed (ch ransfer)	eck all that app	oly):
ldentify who will n	nodify the existing s	ystem or creat	te the new syste	em (check all	that apply)	

Agency/state entity IT staff

A vendor will be contracted

Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):

Other, specify:

Identify the implementation strategy:

All requirements will be addressed in this proposed project in a single implementation.

Requirements will be addressed in incremental implementations in this proposed project.

Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date.

Specify the year when remaining requirements will be addressed:

Identify if the technology for the proposed project will be mission critical and public facing:

The technology implemented for this proposed project will be considered mission critical and public facing.

2.10.7 Architecture Information

Business Function/Process(es)

External facing, web-based portal to enable external entities to enter data into the OISP application.

Application, System or Component:	OISP Application					
COTS, MOTS or Custom:	Modified off-the-shelf (MOTS)					
Name/Primary Technology:	Determined by SaaS vendor					
Runtime Environment						
Cloud Computing Used?	□Yes □No					
	If "Yes", specify: <u>Software as a Service (SaaS)</u>					
Server/Device Function:	Cloud SaaS					
Hardware:	Cloud SaaS					
Operating System:	Cloud SaaS					
System Software:	Cloud SaaS					
System Interfaces:	Standard Browser					
Data Center Location:	Commercial Data Center					
Security						
Access:	Public Internal State Staff External State Staff					
(check all that apply)	Other, specify: Vessel Owner, Vessel Operator, Shipping Agent					
Type of Information:	□Personal □ Health □Tax □Financial □Legal □Confidential					
(check all that apply)	Other, specify: Public					
Protective Measures:	Technical Security					
(check all that apply)	Physical Security Backup and Recovery					
	Other, specify:					

Data Owner	Name:	Olivia Morrow				
	Title:	Environmental Program Manager				
	Business Program:	Oceanic Intrusive Species Program				
Data Custodian	Name:	Alex Bradley				
	Title:	Chief Information Officer				
	Business Program:	Information Services Section				
2.10.1 Solution Typ	e					
Recommended	Alternative					
2.10.2 Name						
Custom development b	y external vendor to modify e	xisting system to add external, web-based portal.				
2.10.3 Description						
implementation effort a existing application, the with the existing solutio	nd would meet Department re re is the possibility to obtain th n.	n. This alternative would be a custom development and equirements. Since this alternative is a modification to an ne resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o	and would meet Department re re is the possibility to obtain th n. AW) apply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services	quirements. Since this alternative is a modification to an ne resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas	and would meet Department re re is the possibility to obtain th n. AW) capply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services IT system	quirements. Since this alternative is a modification to an ne resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas Enhance the existing	and would meet Department re re is the possibility to obtain the n. AW) capply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services IT system em	equirements. Since this alternative is a modification to an the resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas Enhance the existing Create a new IT syste Perform a business-b	and would meet Department re re is the possibility to obtain th n. AW) capply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services IT system	equirements. Since this alternative is a modification to an the resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas Enhance the existing	and would meet Department re re is the possibility to obtain the n. AW) capply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services IT system em	equirements. Since this alternative is a modification to an the resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas Enhance the existing Create a new IT syste Perform a business-b Other, specify:	and would meet Department re re is the possibility to obtain th n. AW) apply) or existing capabilities ousiness process or create a ne or level of services provided sed contracted services IT system em based procurement to have ver	equirements. Since this alternative is a modification to an the resources that are knowledgeable and have expertise				
implementation effort a existing application, the with the existing solutio (Note: Alternative 2 in F Approach (check all that Increase staff - new o Modify the existing b Reduce the services o Utilize new or increas Enhance the existing Create a new IT syste Perform a business-b	and would meet Department re re is the possibility to obtain the n. AW) apply) for existing capabilities pusiness process or create a ne for level of services provided sed contracted services IT system em pased procurement to have ver	equirements. Since this alternative is a modification to an the resources that are knowledgeable and have expertise				

The application will be extensible to meet changing business needs.

Resources with knowledge and expertise with the existing application can potentially be utilized, therefore this would reduce the development and implementation time.

Since the existing application and resources can be used, the need to perform data migration will be eliminated.

Disadvantages

Time to procure contract services could be longer than developing the solution internally.

Security for an external facing web-based portal will need to be developed, therefore additional development resources may be required.

L	Anticinata	d Time to Achi	wa Obiastiwas	Aftor Droiget	Golivo	
Objective	Within 1 Year	d Time to Achie 2 Years	ave Objectives A 3 Yea	-	4 Years	Over 4 Years
Number	Within 1 rear	L reals	5100		4 ICUIS	
1.1						
1.2						
1.3						
2.1						
3.1						
4.1						
5.1						
6.1						
	Anticipated T	ime to Achieve	Financial Bene	fits After Pro	ject Go-Live	
Financial Benefit	v	/ithin 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Increased Revenue	S					
Cost Savings						
Cost Avoidance						
Cost Recovery						
2.10.5 Assumpt	ions and Const	raints				
	ources that have k	nowledge and e	expertise with t	ne current ap	plication can be	utilized for this
project.	e existing infrastru	icture being us	ad for the curre	nt internal so	lution	
	isting data and da					
	urces will be avail					
2.10.6 Impleme	ntation Approa	ach				
Identify the type of		n enhancement	or new system	proposed (cl	heck all that app	oly):
Enhance the cur	rent system					
Develop a new o						
Purchase a Com	mercial off-the-Sh	elf (COTS) syste	m			
Purchase or obta	ain a system from	another govern	nment agency (T	ransfer)		
Subscribe to a So	oftware as a Servio	ce (Saas) system	ı			
Other, specify:						
Identify cloud servio	ces to be leverage	d (check all tha	t apply):			
Software as a Se	rvice (SaaS) provi	ded by OTech				
Software as a Se	rvice (SaaS) provi	ded by commer	cial vendor			

Platform as a Service (PaaS) provided by OTech

Platform as a Service (PaaS) provided by commercial vendor

□ Infrastructure as a Service (IaaS) provided by OTech

Infrastructure as a Service (IaaS) provided by commercial vendor

No cloud services will be leveraged by this alternative. Provide a description of why cloud services are not being leveraged:

California Government Agency owns and maintains its own Cloud Service. Since the existing OISP application is hosted there, this solution will continue to be hosted in the same environment.

Identify who will modify the existing system or create the new system (check all that apply)

Agency/state entity IT staff

A vendor will be contracted

Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):

Other, specify:

Identify the implementation strategy:

All requirements will be addressed in this proposed project in a single implementation.

Requirements will be addressed in incremental implementations in this proposed project.

Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date.

Specify the year when remaining requirements will be addressed:

Identify if the technology for the proposed project will be mission critical and public facing:

The technology implemented for this proposed project will be considered mission critical and public facing.

2.10.7 Architecture Information

Business Function/Process(es)

External facing, web-based portal to enable external entities to enter data into the OISP application.

Application, System or Component:	OISP Application
COTS, MOTS or Custom:	Custom Application
Name/Primary Technology:	Visual Basic .Net Framework version 4
Runtime Environment	
Cloud Computing Used?	Yes No
	If "Yes", specify: <u>Select</u>
Server/Device Function:	Production and Test - WebApp Server SQL Server
Hardware:	VM Ware at CGA
Operating System:	Windows 2008 R2
System Software:	IIS and SQL Server 2008 R2
System Interfaces:	
Data Center Location:	

	Agency/State Data Center Operated by Agency/state entity						
Security							
Access: (check all that apply)	Public Internal State Staff External State Staff Other, specify: Vessel Owner, Vessel Operator, Shipping Agent						
Tune of lufe mostions							
Type of Information: (check all that apply)		Tax Financial Legal Confidential					
	Other, specify: Public						
Protective Measures: (check all that apply)	Technical Security Identity Authorization and Authentication Physical Security Backup and Recovery						
	Other, specify:						
Data Management							
Data Owner	Name:	Olivia Morrow					
	Title:	Environmental Program Manager					
	Business Program:	Oceanic Intrusive Species Program					
Data Custodian	Name:	Alex Bradley					
	Title:	Chief Information Officer					
	Business Program:	Information Services Section (ISS)					
2.10.1 Solution Type							
	Alternative						
2.10.2 Name							
ŀ	ernal Department resources	to add external facing, web-based portal.					
2.10.3 Description							
	ntities to enter data into the	ting OISP application to add an external web-based portal OISP application. This alternative would be a custom t Department requirements.					
Approach (check all that appl	y)						
☐ Increase staff - new or exi	sting capabilities						
☐ Modify the existing busine	ess process or create a new l	pusiness process					
Reduce the services or lev	el of services provided						
Utilize new or increased o	ontracted services						
Enhance the existing IT sy	stem						
Create a new IT system							
Perform a business-based	procurement to have vendo	ors propose a solution					
Other, specify:							
2.10.4 Benefit Analysis							
	Benefits//	Advantages					
No procurement of contract	staff required to develop ar	nd implement solution.					

The existing OISP application will be leveraged.

This alternative would satisfy all business objectives outlined in the Stage 1 Business Analysis.

Extensible to meet changing business needs.

Disadvantages

Higher risk of delays due to learning curve of modifying an existing application, since Department resources do not have expertise with the current application.

Department does not have available resources to develop and implement the solution.

Security for an external facing web-based portal will need to be developed, therefore additional development resources may be required.

Anticipated Time to Achieve Objectives After Project Go-Live							
Objective Number	Within 1 Year	2 Years	3 Ye	ars	4 Years	Over 4 Years	
1.1		П	Г	1	П	П	
1.2		П	Ξ				
1.3		н		1			
				1			
2.1				J 7			
3.1			L]			
4.1]			
5.1			Г]			
6.1			Г]			
	Anticipated Ti	me to Achieve	Financial Ben	efits After Pro	oject Go-Live		
Financial Benefit	Wi	thin 1 Year	2 Years	3 Years	4 Years	Over 4 Years	
Increased Revenue	es						
Cost Savings							
Cost Avoidance							
Cost Recovery							
2.10.5 Assump	tions and Constra	aints					
Departmer	nt resources will be a	vailable and e	ngaged in the	project.			
	nt resources do not h		-		vith the current C	ISP application.	
-	 Leverage existing infrastructure used for the current internal solution. Leverage existing data and database used for the current internal solution. 						
b	entation Approa						
•	of existing IT system		or new system	n proposed (d	heck all that ann	lv):	
Enhance the cu						.,,-	
Develop a new							
	castom solution						

Purchase a Commercial off-the-Shelf (COTS) system

Purchase or obtain a system from another government agency (Transfer)

Subscribe to a Software as a Service (Saas) system

Other, specify:

Identify cloud services to be leveraged (check all that apply):

Software as a Service (SaaS) provided by OTech

Software as a Service (SaaS) provided by commercial vendor

Platform as a Service (PaaS) provided by OTech

Platform as a Service (PaaS) provided by commercial vendor

Infrastructure as a Service (IaaS) provided by OTech

Infrastructure as a Service (IaaS) provided by commercial vendor

No cloud services will be leveraged by this alternative. Provide a description of why cloud services are not being leveraged:

California Government Agency owns and maintains its own Cloud Service. Since the existing OISP application is hosted at that location, this solution will continue to be hosted in the same environment.

Identify who will modify the existing system or create the new system (check all that apply)

Agency/state entity IT staff

A vendor will be contracted

Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):

Other,	specify:

Identify the implementation strategy:

 \Box All requirements will be addressed in this proposed project in a single implementation.

Requirements will be addressed in incremental implementations in this proposed project.

Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date.

Specify the year when remaining requirements will be addressed:

Identify if the technology for the proposed project will be mission critical and public facing:

The technology implemented for this proposed project will be considered mission critical and public facing.

2.10.7 Architecture Information

Business Function/Process(es)

External facing, web-based portal to enable external entities to enter data into the OISP application.				
Application, System or	OISP application			
Component: COTS, MOTS or Custom:	Custom Application			
Name/Primary Technology:	Visual Basic .Net Framework version 4			
Runtime Environment				
Cloud Computing Used?	□ Yes □ No			

	If "Yes", specify: <u>Select</u>		
Server/Device Function:	Production and Test - WebApp Server SQL Server		
Hardware:	VM Ware at CGA		
Operating System:	Windows 2008 R2		
System Software:	IIS and SQL Server 2008 R2		
System Interfaces:			
Data Center Location:	Agency/State Data Cente	r Operated by Agency/state entity	
Security			
Access:		ate Staff 🛛 External State Staff	
(check all that apply)	Other, specify: Vesse	l Owner, Vessel Operator, Shipping Agent	
Type of Information:	Personal 🛛 Health	□ Tax □ Financial □ Legal □ Confidential	
(check all that apply)	Other, specify: Public		
Protective Measures:	Technical Security	Identity Authorization and Authentication	
(check all that apply)	Physical Security	Backup and Recovery	
	Other, specify:		
Data Management	-		
Data Owner	Name:	Olivia Morrow	
	Title:	Environmental Program Manager	
	Business Program:	Oceanic Intrusive Species Program	
Data Custodian	Name:	Alex Bradley	
	Title:	Chief Information Officer	
	Business Program:	Information Services Section	
2.11 Recommend	ed Solution		
2.11.1 Rationale for Sele	ection		
The recommended solution is	s to have a vendor implement	nt a MOTS in a SaaS environment.	
		be the best value to Department and meets	
		The solution will align with Department strategic direction to be the best fit considering the degree to which the	
	-	technology, and will also adhere to CA Dept. of	
	-	The risk of the solution was weighed against other	
		g scope, schedule, and budget of the project, and was adaptability to meet future changes to the program.	
File Attachment			
2.11.2 Technical/Initial	CA-PMM Complexity A	ssessment	
Comple	exity	Complexity Zone	
Technical Complexity Score:	1.4	Zone I Low Criticality/Risk	
recifical complexity score: [-	<u></u>	Zone II/III Medium Criticality/Risk	
		Zone IV High Criticality/Risk	

2.11.3 Procurement and Staffing Strategy

Activity			
Solicitation Development			
Responsible	Agency/State Entity Staff		
(check all that apply)	DGS Staff CA-PMO Staff		
	STPD Staff		
	Other, specify:		
When Needed	Stage 3 Solution Development		
(check all that apply)	Stage 4 Project Readiness and Approval		
	After project is approved (after Stage 4 Project Readiness and Approval)		
Cost Estimate Verification	Market research conducted (MR)		
(check all that apply)	Cost estimate provided (CE)		
	Department of Technology CE		
	DGS CE		
	Request For Information conducted (RFI)		
	Comparable vendor services have been used on previous contracts (CV)		
	Leveraged Procurement Agreement (LPA)		
Complete Only if Contractor Re			
Pro curement Vehicle	Contract Type		
Select	Select		
If "Other," specify:	If "Other," specify:		
Activity			
Conduct Procurement			
Responsible	Agency/State Entity Staff		
(check all that apply)	DGS Staff CA-PMO Staff		
	STPD Staff Contractor		
	Other, specify:		
When Needed	Stage 3 Solution Development		
(check all that apply)	Stage 4 Project Readiness and Approval		
	After project is approved (after Stage 4 Project Readiness and Approval)		
Cost Estimate Verification	Market research conducted (MR)		
(check all that apply)	Cost estimate provided (CE)		
	Department of Technology CE		
	Request For Information conducted (RFI)		
	Comparable vendor services have been used on previous contracts (CV)		
	Leveraged Procurement Agreement (LPA)		
Complete Only if Contractor Re			
Procurement Vehicle	Contract Type		

<u>Select</u>		Select	
If "Other," specify:		If "Other," specify:	
Activity			
Project Management			
Responsible	Agency/State Entity Staff	ITPOD Staff	
(check all that apply)	DGS Staff	CA-PMO Staff	
	STPD Staff		
	Other, specify:		
When Needed	Stage 3 Solution Development		
(check all that apply)	Stage 4 Project Readiness and A		
	After project is approved (after	Stage 4 Project Readiness and Approval)	
Cost Estimate Verification	Market research conducted (M	R)	
(check all that apply)	Cost estimate provided (CE)		
	Department of Technology CE		
	Request For Information condu	icted (RFI)	
	\square Comparable vendor services have been used on previous contracts (CV)		
	Leveraged Procurement Agree	ment (LPA)	
Complete Only if Contractor Re	esponsible for Activity		
Procurement Vehicle		Contract Type	
<u>Select</u>		<u>Select</u>	
If "Other," specify:		If "Other," specify:	
]	
Activity			
Organizational Change Manage	ement		
Responsible	Agency/State Entity Staff	ITPOD Staff	
(check all that apply)	DGS Staff	CA-PMO Staff	
	STPD Staff	Contractor	
	Other, specify:		
When Needed	Stage 3 Solution Development		
(check all that apply)	Stage 4 Project Readiness and Approval		
· · · · · · · · · · · · · · · · · · ·		Stage 4 Project Readiness and Approval)	
	_		
Cost Estimate Verification	Market research conducted (M	IK)	
(check all that apply)	Cost estimate provided (CE)		
	Department of Technology CE		
	Request For Information condu	icted (RFI)	

	_	nave been used on previous contracts (CV)	
	Leveraged Procurement Agree	ement (LPA)	
Complete Only if Contractor Re	esponsible for Activity		
Procurement Vehicle		Contract Type	
<u>Select</u>		<u>Select</u>	
If "Other," specify:		If "Other," specify:	
Activity			
Training			
Responsible	Agency/State Entity Staff	ITPOD Staff	
(check all that apply)	DGS Staff	CA-PMO Staff	
	STPD Staff	Contractor	
	Other, specify:		
When Needed	Stage 3 Solution Development	t	
(check all that apply)	Stage 4 Project Readiness and		
	After project is approved (after Stage 4 Project Readiness and Approval)		
	_		
Cost Estimate Verification	Market research conducted (MR)	
(check all that apply)	Cost estimate provided (CE)		
	Department of Technology CE		
	DGS CE		
	Request For Information conducted (RFI)		
	Comparable vendor services have been used on previous contracts (CV)		
Complete Only if Contractor Re	esponsible for Activity		
Procurement Vehicle		Contract Type	
<u>Select</u>		<u>Select</u>	
lf "Other," specify:		If "Other," specify:	
Activity		·	
Integration/Development			
Responsible	☐Agency/State Entity Staff	ITPOD Staff	
(check all that apply)	DGS Staff	CA-PMO Staff	
	STPD Staff	Contractor	
	Other, specify:		
When Needed	Stage 3 Solution Development	t	
(check all that apply)	Stage 4 Project Readiness and		
		er Stage 4 Project Readiness and Approval)	
		5 ,	
Cost Estimate Verification	☐ Market research conducted (I	MR)	
(check all that apply)			

Cost estimate p	rovided (CE)	
Department of	. ,	
	rechnology CL	
二 二 二	ormation conducted (RFI)	
	ndor services have been used o	n providus contracts $(C(1))$
·		in previous contracts (CV)
Complete Only if Contractor Responsible for Activity	urement Agreement (LPA)	
	a	
Procurement Vehicle	Contrac	
Select	Select	
If "Other," specify:		r," specify:
]	
Will any of the activities identified above result in a con will be over the Agency/state entity's DGS delegated pu		Yes No olicitation that
2.11.4 Enterprise Architecture Alignment		
service components, security and integrated workflow. Office 365 suite to every end user. It contains a compre of IT problems. The Department ISS Enterprise Architec many specialized solutions to leveraging a few compret	chensive set of tools that can be cture goal is to move from the c	e used to solve a wide variety
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or	55 platform is given, to ensure	
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement.	55 platform is given, to ensure a nline component which has the as transactions and this aligns w	e ability to implement and
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Tech	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table	e ability to implement and vith a
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement.	55 platform is given, to ensure a nline component which has the as transactions and this aligns w	e ability to implement and
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Tech	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities)	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing Master Data Management	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing Master Data Management Big Data Analytics	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing Master Data Management Big Data Analytics 2.11.5 Project Phases	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing Master Data Management Big Data Analytics 2.11.5 Project Phases	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability
For each new project, proper consideration of Office 36 strategy. The Office 365 suite contains a SharePoint Or manage public facing forms for government-to-busines core OISP requirement. Information Technology Capability Public or Internal Portal/Website Public or Internal Mobile Application Enterprise Service Bus Identity and Access Management Enterprise Content Management (including document scanning and eForms capabilities) Business Intelligence and Data Warehousing Master Data Management Big Data Analytics 2.11.5 Project Phases	55 platform is given, to ensure a hline component which has the stransactions and this aligns w nology Capability Table Existing Enterprise	e ability to implement and vith a New Enterprise Capability

Phase Deliverable 2.11.6 High Level Proposed Project Schedule Project Start Date: 7/1/2016 Project Planning Start Date: 10/5/2015 Project End Date: 6/30/2017 6/30/2016 Project Planning End Date: Start Date End Date **Activity Name** 1/4/2016 4/1/2016 Stage 3 Solution Development Stage 4 Project Readiness and Approval 4/4/2016 6/30/2016 Solicitation Award 7/1/2016 7/1/2016 Requirements 7/29/2016 7/5/2016 9/16/2016 Design 8/1/2016 9/1/2016 4/28/2017 Development 4/3/2017 5/31/2017 **Testing** <u>Training</u> 6/1/2017 6/14/2017 **Deployment** 6/29/2017 6/15/2017 <u>Go Live</u> 6/30/2017 6/30/2017 7/31/2017 Maintenance and Operations 6/26/2017 2.11.7 Cost Summary **Total Proposed Planning Cost:** \$211,253 Total Proposed Project Cost: \$604,041 Average Proposed Operations Cost: \$247,614 2.12 Staffing Plan 2.12.1 Administrative 2.12.2 Business Program 2.12.3 Information Technology (IT) 2.12.4 Testing

2.12.5	Data	Conversion	/Migration

2.12.6 Training and Organizational Change Management

2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution Development

2.12.8 Project Management 2.12.8.1 Project Management Risk Assessment **Project Management Risk Score:** 1.7 Attach file: x Any Dept 7502-999 PM Maturity 20151201.xlsx Microsoft Excel Worksheet 27.0 KB 2.12.8.2 Project Management Planning Are the following project management plans or project artifacts complete, approved by the designated Agency/state entity authority, and available for Department of Technology review? **Project Charter** Yes Scope Management Plan No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. **Risk Management Plan** No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. Issue and Action Item Management Plan No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. **Communication Management Plan** No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. Schedule Management Plan No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. Human Resource Management Plan No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. Staff Management Plan No Once Stage 2 Alternative Analysis is approved, this artifact will be developed. Stakeholder Management Plan

	No	Once Stage 2 Alternative Analysis is approved, this artifact will be developed.
Governance Plan	<u>No</u>	Once Stage 2 Alternative Analysis is approved, this artifact will be developed.
2.12.9 Organization Charts	5	
I File Attachment		
2.13 Data Conversio	on/Migration	J
Identify the status of each of the	following data conversi	on/migration activities:
Data Conversion/Migration Planr	ning	Not Applicable
Data Conversion/Migration Requ	irements	Not Applicable
Current Environment Analysis		Completed
Data Profiling		Not Applicable
Data Quality Assessment		Not Applicable
Data Quality Business Rules		Not Applicable
Data Dictionaries		Not Applicable
Data Cleansing and Correction		Not Applicable
File Attachment 2.14 Financial Analy	vsis Worksheet	s
Any Dept 7502-999 OISP- Financial-Analysis-Worksheets Final 20151201.xlsx Microsoft Excel Worksheet 556 KB		
Department of Tech	nology Use Or	nly [
Preliminary Assessment – I	Department of Tech	nology Use Only
Original "New Submission" Date	2	10/30/2015
Form Received Date		11/3/2015
Form Accepted Date		11/3/2015
Form Status		Completed
Form Status Date		11/6/2015
Main Form - Department o	f Technology Use O	nly
Original "New Submission" Date	2	11/20/2015

12/10/2015

Form Received Date

Form Accepted Date

	12/10/2015	
Form Status	Completed	
Form Status Date	12/10/2015	
Form Disposition	Approved with Conditions	
Form Disposition Date	12/17/2015	