

Stage 2 Preliminary Assessment

2.1	2.1 General Information							
Age	ency or State Entity I	Name:						
	Department of Housing and Community Development (HCD)							
	ganization Code:							
224								
	posal Name:							
	nsolidated Housing A			•	: (CHAAPP)			
_	partment of Technol	<u>. </u>		2240-053				
	Preliminary Submitt	al Informatio	on					
	ntact Information:							
(Contact First Name:			Contact Last N	lame:			
Lor	İ			Staffler				
(Contact Email:			Contact Phone	e:			
Lor	i.Staffler@hcd.ca.go	1		(916) 215-884	0			
Pre	liminary Submission	Date:		Preliminary As	ssessment Transı	mittal:		
N/A	4			N/A				
2.3	Stage 2 Preliminary	Assessment						
2.3	.1 Impact Assessmer	nt						
							Yes	No
1.	Has the Agency/stat sponsors and key st	•	tified and commit	ted subject ma	tter experts from	all business	\boxtimes	
2.								
3.								
4.	Does the Agency/staprocurement activit	•		g a budget requ	est to support th	e	×	
5.								
6.								
7.	7. Will the Agency/state entity's Information Security Officer be involved in the development and review of any security related requirements? □							
8.	b. Does the Agency/state entity anticipate performing a business-based procurement to have vendors propose a solution?							
2.3	.2 Business Complex	ity Assessme	nt					
Bus	iness Complexity:	2.6	Business Comple	exity Zone:	☐ High		☐ Low	V



2.4 Submittal Information						
Contact Information:						
Contact First Name: Contact Last Name:						
Lori	Staffler					
Contact Email:	Contact Phone:					
Lori.staffler@hcd.ca.gov	(916) 215-8840					
Submission Date:	Project Approval Executive Transmittal:					
7/1/2021 SIMM 19G – Project Approval Executive Transm						
Submission Type:						



☑ New Submission			ted Submission (Post-Approval)						
☐ Updated Submission (Pre-Approval)			☐ Withdraw Submission						
		Reason: Select							
If "Other," specify:									
Sections Updated (For Updated Submissions Only) – (check all that apply)									
☐ 2.1 General Information			☐ 2.10.6 Implementation Approach						
☐ 2.2 Preliminary Submitta	al Information		☐ 2.10.7 Architecture Information						
☐ 2.3 Stage 2 Preliminary A	Assessment		2.11 Recommended Solution						
☐ 2.3.1 Impact Assessm	ent		☐ 2.11.1 Rationale for Selection						
☐ 2.3.2 Business Comple	evity Assessment		\square 2.11.2 Technical/Initial IT Project Oversight						
_	-		Framework Complexity Assessment						
☐ 2.4 Submittal Information	n		☐ 2.11.3 Procurement and Staffing Strategy						
☐ 2.5 Baseline Processes a	nd Systems		☐ 2.11.4 Enterprise Architecture Alignment						
☐ 2.5.1 Description			☐ 2.11.5 Project Phases						
☐ 2.5.2 Business Proces			☐ 2.11.6 High Level Proposed Project Schedule						
☐ 2.5.3 Current Archited	cture Information		☐ 2.11.7 Cost Summary						
☐ 2.5.4 Current Archited	cture Diagram		2.12 Staffing Plan						
☐ 2.5.5 Security Categor	rization Impact Table		☐ 2.12.1 Administrative						
☐ 2.6 Mid-Level Solution R	equirements		☐ 2.12.2 Business Program						
☐ 2.7 Assumptions and Cor	nstraints		\square 2.12.3 Information Technology (IT)						
☐ 2.8 Dependencies			☐ 2.12.4 Testing						
☐ 2.9 Market Research			☐ 2.12.5 Data Conversion/Migration						
☐ 2.9.1 Market Researc			\square 2.12.6 Training and Organizational Change						
Methodologies/Timefrai	mes		Management						
☐ 2.9.2 Results of Mark	et Research		☐ 2.12.7 Resource Capacity/Skills/Knowledge for Stag						
			3 Solution						
☐ 2.10 Alternative Solution			Development						
☐ 2.10.1 Solution Type)			☐ 2.12.8 Project Management						
☐ Recommended			☐ 2.12.8.1 Project Management Maturity						
□ Altaumation			Assessment						
☐ Alternative			☐ 2.12.8.2 Project Management Planning						
☐ 2.10.2 Name			☐ 2.12.9 Organization Charts						
☐ 2.10.3 Description	•-		2.13 Data Conversion/Migration						
☐ 2.10.4 Benefit Analysi		Ш	2.14 Financial Analysis Worksheets						
☐ 2.10.5 Assumptions a Summary of Changes:	na Constraints								
Summary of Changes:									
Condition(s) from Previous Sta	ge(s):								
Condition #	N/A								
Condition Category	Select								
Other, specify									
Condition Sub-category	Select								
Other, specify									
Condition									
Assessment	Select								
Other, specify									



Agency/state Entity Response	
Status	Select
Other, specify	
Select + to add conditions.	



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2.5 Baseline Processes and Systems

2.5.1 Description

In fulfilling its statutory responsibility to promote safe, affordable homes and vibrant, inclusive sustainable communities for all Californians, the Department of Housing and Community Development (HCD) oversees more than 80 programs that award loans and grants for construction, acquisition, rehabilitation and preservation of affordable rental and ownership housing, homeless shelters and transitional housing, public facilities, and infrastructure. HCD's current information management systems are insufficient to meet operational needs and State and Federal reporting requirements.

The goal of the Consolidated Housing Accountability Application Procurement Project (CHAAPP) is to implement a robust and scalable enterprise data collection and management system to accurately capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information. The system must be configurable and flexible to accommodate new programs, and changes to existing programs, and help ensure compliance with applicable statutes, regulations, and reporting requirements.

HCD's baseline business processes focus on HCD's legacy system "as-is" business processes, including capturing, organizing, tracking, awarding, managing, and reporting on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information. The legacy systems' lack of necessary functionality and features requires HCD staff to consolidate data from multiple manual and automated data collection sources using applications like MS Word and MS Excel to support daily operations and tracking application items including Program Income and Demographic information.

BASELINE SYSTEMS:

Consolidated Automated Program Enterprise Systems (CAPES) is HCD's enterprise-level data collection and organization system that manages and reports essential State and Federal program and funding information. CAPES supports more than 80 Federal and State programs and is used to award, track, monitor, and report housing loan and grant information for its \$7 billion housing portfolio. Each loan and grant award is monitored individually using CAPES and necessary manual tools and processes (primarily MS Excel) to reconcile data for reporting.

CAPES was deployed in 2007 and was turned over to HCD for maintenance and operations (M and O) without adequate system process documentation or knowledge transfer. As a result, CAPES is not easily maintained and supported and has a large backlog of necessary application software fixes, required enhancements to meet operational need, and hardware and system upgrades.

CAPES custom designed web-based software comprises nine primary high-level modules:

- Program
- 2. Notice of Funding Availability (NOFA)
- 3. Application
- 4. Contract/Project
- 5. Monitoring
- 6. Fund
- 7. PCA/SL (Service Location)
- 8. State Ops
- 9. Bonds Proceeds Account (BPA)



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There are six additional application modules in use:

- 1. Admin
- 2. Underwriting
- 3. Award
- 4. Proposition
- 5. Standard Agreement
- 6. Reports

Each CAPES module is customizable to capture information required to complete the business processes to disburse and monitor various housing grants and loans. Each customization requires gathering user requirements and design specifications so the Information Technology Branch (ITB) staff can develop the Java interface and/or Oracle database to meet the business needs. These requirements are varied and unique to each HCD Program, providing customized data entry fields and menu selections based on the type of data collected and the necessary reporting outputs.

Grant Management Systems (GMS) - In recent years, Housing and Urban Development (HUD) monitoring and various audits resulted in documented findings and concerns around HCD's ability to effectively monitor housing program funds. In response to the latest audits, HUD withheld \$124 million of Community Development Block Grant (CDBG) and Community Development Block Grant – Disaster Recovery (CDBG-DR) funding allocated to the State of California to address unmet long-term recovery needs arising from damage caused by the 2017 wildfires, flooding, mudflows, and debris flows.

As a result, HCD leadership decided to fast-track a procurement, serving as a stop-gap solution, to pilot a new GMS for two Federal programs: (1) CDBG-DR and (2) CDBG-DR. Given the timeframe of procurement through implementation, HCD procured an out-of-the-box, Software-as-a-Service (SaaS), cloud hosted system that manages and reports on federal funding information. GMS software offers an online grants management platform to track non-disclosure agreements, contracts, and funds requests.

The goal was to pilot the GMS and evaluate the feasibility of adopting a product for enterprise implementation and was intended to pave the path for a comprehensive enterprise solution. The full implementation for CDBG and CDBG-DR was completed in June 2020. While the GMS SaaS solution successfully addressed the HUD requirements for these Federal programs, the solution did not provide functionality to address both loans and grants.

eGrants System – Owner Occupied Reconstruction (OOR) works directly with disaster impacted homeowners to help determine their eligibility for a CDBG-DR grant for gap funding to assist with reconstruction and assist grant recipients through the reconstruction process. The OOR program consists of program management, construction management, case management, and financial management features within the new software system. This SaaS solution allows HCD personnel and external users (e.g., applicants, project managers) to effectively link, track, manage, analyze, search and report all project information throughout a project's lifecycle from the initial homeowner's survey and grant application through construction and closeout.

The effort to replace CAPES with a new Consolidated Housing Accountability Application will provide HCD a loans and grants management solution that will serve as the Department's enterprise system across State and Federal funding sources encompassing functionalities needed to support HCD's end-to-end operations from solicitation, evaluation, loan management, grant management, closure, compliance reporting, monitoring, and integration with key State and Federal information systems.

As noted above, CAPES' lack of necessary functionality, system documentation, and disciplined business processes resulted in program staff developing and using manual data collection workarounds. Manual MS Excel spreadsheets and MS Word documents are used to capture and calculate critical financial data. There is no system to accurately



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track bond funded awards against a statutory allocation or bond proceed accounts. There also is no loan servicing system that can accurately calculate principal and interest of those awards for different interest types (e.g., compounding or amortized).

HCD's legacy systems do not provide the functionality HCD needs to perform at their potential to meet or exceed Federal and State requirements and provide consistently exceptional service to California citizens in need of these programs.

Housing Element Tracking System(HETS) – HETS is the Division of Housing Policy Development's (HPDs) internal system for tracking specific housing elements and annual progress report data. HETS tracks required data elements for jurisdictions to include in their mandated local general plans. HETS captures project level data for the 539 California city and county jurisdictions, including reporting dates, data elements and iterations of reports from draft through adoption by HCD with built-in data validation business rules that benefit the annual progress reporting. Additionally, HETS tracks and allows HCD to monitor jurisdiction progress toward achieving goals established for the housing element each year and recently added capability to track Accessory Dwelling Unit Ordinances for jurisdiction.

Annual Progress Reporting (APR) is the public-facing portal to HETS where jurisdictions upload their annual progress reports into the APR system. The data uploaded to APR are available in HETS for HCD reviewing, tracking, monitoring and reporting.

2.5.2 Business Process Workflow Attachment: Attach file to email submission. 2.5.3 Current Architecture Information Consolidated Automated Program Enterprise Systems (CAPES) Business Function/Process(es) Award, track, manage, monitor, and report on Federal and State housing loan and grant information. Select + to add a business process with the same application, system, or component; COTS, MOTS or custom solution; runtime environment; system interfaces, data center location; and, security. Application, System or Component System Select + to add an application, system, or component. COTS, MOTS or Custom **Custom application** Name/Primary Technology: Oracle (On-Premise) Runtime Cloud Computing Used? ☐ Yes ☒ No If "Yes," specify: Select... Environment Hyper-V Host Server with Clustering and High Availability Server/Device Function Hardware Dell PowerEdge Servers R600 Series Windows Server OS, Oracle Linux OS Operating System System Software Oracle Enterprise Database, WegLogic, Java, Docker, and Linux Select + to add system software. System Interfaces Web Browser **Data Center Location** State data center operated by CDT Other, specify Security Access ☐ Public ☐ Internal State Staff ☐ External State Staff (check all that apply) ☐ Other, specify: Type of Information ☐ Personal ☐ Health ☐ Tax ☒ Financial ☒ Legal (check all that apply) ☑ Confidential ☑ Other, specify: Interest Reporting **Protective Measures** ☑ Technical Security ☑ Identity Authorization and Authentication (check all that apply) ☑ Physical Security ☑ Backup and Recovery ☐ Other, specify:



Data Management	Data Owner	Name: Jennifer Seeger and Geoffrey Ross			
Data Management	Data Owner	Title: Division of State Financial Assistance (DSFA) and Division of			
		Federal Financial Assistance (DFFA) Deputy Directors			
		Business Program: DSFA and DFFA			
	Data Custodian	Name: HCD			
	Data Castodian	Title: Chief Information Officer (CIO)			
		Business Program: Information Technology Branch (ITB)			
		business rrogram. Information recliniology branch (11b)			
Business Function/	· · ·	Grants Management System (GMS)			
Business Function/	Process(es)	Manages and reports on federal funding information. GMS software			
		offers an online grants management platform, to track non			
		disclosuregreements, contracts, program income, and fund requests			
		for two Federal programs CDBG and CDBG-DR			
		me application, system, or component; COTS, MOTS or custom solution;			
		center location; and, security.			
Application, Systen	n or Component	System			
		Select + to add an application, system, or component.			
COTS, MOTS or Cus		Commerical off-the-shelf (COTS)			
	nary Technology:	eCivis GMS			
Runtime	Cloud Computing Used?	☑ Yes ☐ No If "Yes," specify: Software as a Service (SaaS)			
Environment	c /p : = ::	21/2			
	Server/Device Function	N/A			
	Hardware	N/A			
	Operating System	eCivis SaaS			
	System Software	SaaS GMS			
		Select + to add system software.			
System Interfaces		Integrated Disbursement and Information System (IDIS)			
Data Center Location		Commercial data center			
Caarreiter	Other, specify	Cloud			
Security	Access	☑ Public ☑ Internal State Staff ☐ External State Staff			
	(check all that apply)	Other, specify:			
	Type of Information	☐ Personal ☐ Health ☐ Tax ☒ Financial ☒ Legal			
	(check all that apply)	☑ Confidential ☐ Other, specify:			
	Protective Measures	☐ Technical Security ☐ Identity Authorization and Authentication			
	(check all that apply)	☑ Physical Security ☑ Backup and Recovery			
		☐ Other, specify:			
Data Management	Data Owner	Name: HCD			
		Title: Jennifer Seeger and Geoffrey Ross			
		Business Program: Deputy Directors of DSFA and DFFA			
	Data Custodian	Name: eCivis			
		Title: Vendor			
		Business Program: N/A			
Business Function/		eGrants System			
	· ·	me application, system, or component; COTS, MOTS or custom solution;			
runtime environment; system interfaces, data center location; and, security.					
Application, Systen	n or Component	OOR works directly with disaster impacted homeowners to help			
		determine their eligibility for a CDBG-DR grant for gap funding to			



			assist with reconstruction and assist grant recipients through the				
			reconstruction process.				
			Select + to add an application, system, or component.				
COTS, MOTS or Custom			Commerical off-the-shelf (COTS)				
Name/Primary Technology:			eGrants System				
Runtir Enviro	ne onment	Cloud Computing Used?	⊠ Yes □ No	If "Yes," specify:			
		Server/Device Function	N/A				
		Hardware	N/A				
		Operating System	CIVIX SaaS				
		System Software	CIVIX SaaS				
			Select + to add sy	stem software.			
Syster	n Interfaces		N/A				
Data (Center Locati	on					
		Other, specify	Click here to ent	ter text.			
Securi	ity	Access	⊠ Public ⊠ Int	ernal State Staff □	External State Staff		
		(check all that apply)	□ Other, specify:				
		Type of Information					
		(check all that apply)	Ü				
		Protective Measures					
		(check all that apply)	□ Physical Security				
		(4	☐ Other, specify:				
Data N	Management	Data Owner	Name: Jennifer Seeger and Geoffrey Ross				
Data	viariagerrieri	. Data Owner		rectors of DSFA and	•		
				m: DSFA and DFFA			
		Data Custodian	Name: CIVIX	in Borrana Brirk			
			Title: Vendor				
			Business Progra	m: N/A			
Busine	ess Function,	/Process(es)		nt Tracking System	(HETS)		
		usiness process with the sar ent; system interfaces, data		•	t; COTS, MOTS or custom solution;		
		m or Component	System	·			
			Select + to add an application, system, or component.				
COTS,	MOTS or Cu	stom	Custom application				
	Name/Prir	mary Technology:					
Runtir Enviro	ne onment	Cloud Computing Used?	□ Yes ⊠ No	If "Yes," specify:			
		Server/Device Function	Hyper-V Host Server with Clustering and High Availability				
Hardware Operating System System Software		Hardware	Dell PowerEdge	Servers R600 Series	5		
		Operating System	Windows Serve	[·] OS, Oracle Linux O	S		
		Oracle Enterpris	e Database, WebLo	gic, Java, Docker, and Linux			
			Select + to add sy	stem software.			
System Interfaces			N/A				
Data Center Location			State data center operated by CDT				
		Other, specify	Click here to ent	ter text.			
Securi	ty	Access	☐ Public 🗵 Int	ernal State Staff 🗆	External State Staff		
		(check all that apply)	☐ Other, specify:				



Type of Information			☐ Personal ☐ Health ☐ Tax ☒ Financial ☐ Legal			
		(check all that apply) Protective Measures	☐ Confidential ☐ Other, specify:			
		(check all that apply)	☐ Technical Security ☐ Identity Authorization and Authentication			
			☑ Physical Security ☑ Backup and Recovery☐ Other, specify:			
Data Management		Data Owner	Name: Megan Kirkeby			
Ü			Title: Deputy Director HPD			
			Business Program: HPD			
		Data Custodian	Name: HCD			
			Title: CIO			
B .:	/D	/>	Business Program: ITB			
Business Function/			Tracking specific housing elements and annual progress report data. me application, system, or component; COTS, MOTS or custom solution;			
		•	center location; and, security.			
Application, Syster			Annual Progress Reporting (APR)			
		•	Select + to add an application, system, or component.			
COTS, MOTS or Cu	stom		Custom application			
Name/Prin	nary [·]	Technology:	APR			
Runtime Environment	Clo	ud Computing Used?	☐ Yes ☒ No If "Yes," specify:			
	Se	rver/Device Function	Hyper-V Host Server with Clustering and High Availability			
	Hardware		Dell PowerEdge Servers R600 Series			
		Operating System	Windows Server OS, Oracle Linux OS			
		System Software	Oracle Enterprise Database, WegLogic, Java, Docker, and Linux			
System Interfaces			Select + to add system software. N/A			
Data Center Locati	on		State data center operated by CDT			
	•	Other, specify	Click here to enter text.			
Security		Access	☑ Public ☑ Internal State Staff ☐ External State Staff			
		(check all that apply)	☐ Other, specify:			
		Type of Information	☐ Personal ☐ Health ☐ Tax ☒ Financial ☒ Legal			
		(check all that apply)	☑ Confidential ☐ Other, specify:			
		Protective Measures	☐ Technical Security ☐ Identity Authorization and Authentication			
	(check all that apply)		☑ Physical Security ☑ Backup and Recovery			
Data Managamant		Data Ouran	Other, specify:			
Data Management	•	Data Owner	Name: Megan Kirkeby Title: Deputy Director Housing Policy Division (HPD)			
			Business Program: HCD			
			Name: HCD			
Data Custodian		Data Custodian	Title: CIO			
			Business Program: ITB			
Select + to add business functions/processes.						
2.5.4 Current Architecture Diagram						
		to email submission.				
		ta amail submission				
Attaciment: Attac	ıı ille	to email submission.	ECODIZATION INADACT TADI E CUMMAADV			



SECURITY OBJECTIVE	LOW	MODERATE	HIGH			
Confidentiality			\boxtimes			
Integrity			\boxtimes			
Availability						
2.6 Mid-Level Solution Requirements						
Attachment: Attach file to email submission.						



2.7 Assumptions and Constraints-						
Assumptions/Constraints	Description/Potential Impact					
Sufficient project funding will be approved and remain available throughout the project lifecycle.	Funding will remain available as agreed upon throughout the project lifecycle. A lack of funding would end this project. It is assumed that required funding will be granted and timely made available.					
There are many qualified vendors from which to choose once the competitive bid period is completed.	vendors	to bi	there will be multiple qualified and available d. HCD's choices will be limited if the pool of dors is limited.			
HCD Program staff will be available to participate in the project.	Program staff availability is essential to the Project success. It is assumed that HCD Program staff with the requisite skills and experience will be available during business hours (Monday through Friday from 8:00 a.m. to 5:00p.m.), excluding State holidays. Standard availability will provide a foundation for the success of project planning, implementation, post go-live evaluation, M and O transition and future operations.					
Select + to add assumptions/constraints.						
2.8 Dependencies -						
Element	Description					
Funding Approval	HCD is dependent on funding approval for the procurement and implementation of an enterprise solution to replace HCD's legacy applications. HCD also is dependent upon funding approval for the various supporting consulting services to assist during the HCD legacy system replacement.					
Select + to add dependencies.						
2.9 Market Research						
2.9.1 Market Research Methodologies/Timeframes						
Methodologies Used To Perform Market Research (chec	k all that	appl	y):			
Request for Information (RFI)		\boxtimes	Trade shows			
✓ Internet Research			Published Literature			
∨ Vendor Forums/Presentation			Leveraged Agreements			
Collaboration with other Agencies/state entities or governmental entities			Other, specify:			
Time spent conducting market research:	4 mont	hs				
Date market research was started:	2/1/2021					
Date all market research was completed:	5/31/2021					
2.9.2 Results of Market Research						



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HCD conducted a broad evaluation of the market to capture pertinent information relative to this proposal. HCD conducted various market research efforts, including participating in product and solution demonstrations, internet research, and a review of leveraged agreements. Following is a summary of these efforts.

Product/Solution Demonstrations:

HCD coordinated several demonstrations of loan and grant management solutions to help attendees understand the various features and solution capabilities available.

HCD hosted demonstrations:

- CGI (3/17/2021)
- Salesforce (3/22/2021)
- ProLink (3/29/2021)
- Emphasys (4/30/2021)

The sessions included demonstrations of the products currently offered, which allowed an opportunity to better understand the capabilities currently available in the marketplace.

Internet Research Extensive:

HCD conducted Internet research, including researching additional information about the solutions vendors presented. This research helped validate vendor-provided demos and enhanced staff understanding of the capabilities of each demonstrated system. The research also confirmed vendor viability and details of each company's advertised project successes and failures where available.

Market Research Results:

HCD considered several criteria when selecting the best alternative for this proposal to allow HCD to meet the project goals and objectives, minimize risk, accelerate implementation timeframes, be cost effective, and align with the strategic direction of CDT, HUD, and HCD. A Software- as-a-service (SaaS) solution, replacing HCD's legacy systems is the best solution based on the criteria outlined above.

2.10 Alternative Solutions

2.10.1 Solution Type

⊠ Recommended

2.10.2 Name

Alternative 1: Procure and implement a new Software-as-a-Service (SaaS) Solution

2.10.3 Description



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HCD recommends the procurement, configuration and implementation of a Software-as-a-Service (SaaS) solution to achieve an enterprise Consolidated Housing Accountability Application to capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information. Through market research evaluation and analysis, this approach was determined to be cost-effective and valuable in reducing key areas of project risk including requirements definition and organizational change management and eliminating the risk area of data conversion. Additionally, the SaaS solution would provide a flexible solution helping to ensure the system can continue to meet HCD's business needs as business processes mature and the technology landscape evolves.

Considering the lessons learned resulting from the GMS pilot implementation, HCD anticipates using a Request for Proposal (RFP) process to acquire a system integrator (SI) and cloud-based SaaS system. This solution must interface with other applications, as described in the midlevel non-functional mandatory requirements. The system must be a scalable, robust, data collection, management and real-time reporting system. HCD would release one or more solicitations to onboard a vendor(s) to configure and implement the SaaS and replace HCD's legacy systems. The existing business process diagrams, functional and system requirements, and other associated documentation developed during HCD's planning activities would be leveraged to streamline the SaaS configuration. HCD also anticipates the vendor(s) will develop "to-be" use case and/or user story documentation to support successful development and testing activities. HCD and ITB, with the guidance of CDT, would score the solicitation responses to determine the vendor(s) who could provide the best value with the least risk to the State is/are selected.

In addition to the procurement of the configuration/implementation vendor(s) for the SaaS, HCD would release supplemental solicitations for additional project support for Project Management, Independent Verification and Validation (IV&V), Testing, Organizational Change Management (OCM), and Training.

HCD's recommended SaaS solution approach would provide prioritized functionality by implementing the Minimum Viable Product (MVP) during the first year of the project. HCD would pursue additional incremental functional enhancements during subsequent iterations. This approach, rather than a "big bang" or "rip and replace" approach, reflects HCD's desire to minimize risk and maximize value through the release of prioritized functionality through incremental implementation using an agile development, test and implementation methodology. This approach will allow HCD to realize the benefits of key business process improvements, including online application submission and grant and loan awards early in the project. These early and significant process improvements would increase stakeholder confidence, constituent satisfaction, and Program Area adoption and support.

Approach (Check all that apply): Increase staff – new or existing capabilities \boxtimes |X|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 \boxtimes Enhance the existing IT system \boxtimes Create a new IT system Perform a business-based procurement to have vendors propose a solution П Other, specify:

2.10.4 Benefit Analysis

Benefits/Advantages

Implementing a configurable SaaS product reduces the systems development time, project cost, and schedule risks.

SaaS products are tested for all defects and evaluated against elaborate usability tests and are ready for use on implementation.

	SaaS products are vendor maintained and enhanced and maintenance and enhancement costs are included in the licensing costs.						
		fits/advantages.					
Disa	dvantages						
A Sa	aS product that	meets all program re	equirements with no	adjustments most li	kely does not exist.		
A Sa	aS product likely	will require custom	ization and configura	ation to meet HCD re	equirements.		
Cost	s might he great	ter hased on the rea	uired customizations	:	•		
	ct + to add disac		anea castonnizations	··			
		Anticipated	d Time to Achieve Ol	bjectives After Proje	ct Go-Live		
			Objective T	imeframe			
Obj	ective Number	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years	
	1.1	\boxtimes					
	2.1		\boxtimes				
	3.1	\boxtimes					
	4.1	\boxtimes					
	4.2		\boxtimes				
	4.3		\boxtimes				
Sele	ct + to add objec	ctives.					
		Anticipated Tir	ne to Achieve Finan	cial Benefits After Pr	roject Go-Live		
Fi	nancial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years	
Ind	reased Revenue	es 🗆					
	Cost Saving						
	Cost Avoidance						
	Cost Recover	ту 🗆		\boxtimes			
	<u> </u>	and Constraints					
		mptions/constraints					
	.6 Implementat				de est ellaboros el V		
	Enhance the cu		enhancement or nev	v system proposed (check all that apply)	:	
		custom solution					
	•	nmercial off-the-She	If (COTS) system				
			nother government	agency (Transfer)			
		Software as a Service	•	age, (a			
	Other, specify:		, ,				
Ide	ntify cloud servi	ces to be leveraged	(check all that apply):			
	Software as a S	ervice (SaaS) provide	ed by OTech				
\boxtimes		• • •	ed by commercial ve	ndor			
		ervice (PaaS) provide	•				
			ed by commercial ver	ndor			
		as a Service (laaS) pro	•				
		• • •	ovided by commercia				
	No cloud services will be leveraged by this alternative. Provide a description of why cloud services are not being						



Identify who will modify the existing system or create the new system (check all that apply):
☐ Agency/state entity IT staff
☐ 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 the 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/F	Process(es)	Accurately capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information.					
		ne application, sys	tem, or componen	t; COTS, MOTS or custom solution;			
	nt; system interfaces, data		nd, security.				
Application, System	or Component	System					
		Select + to add a	in application, syste	em, or component.			
COTS, MOTS or Cus		SaaS					
	ame/Primary Technology:	SaaS					
Runtime Environment	Cloud Computing Used?	⊠ Yes □ No	If "Yes," specify:	Software-as-a-Service (SaaS)			
	Server/Device Function	TBD					
	Hardware	TBD					
	Operating System	TBD					
	System Software	TBD					
	Ç	Select + to add system software.					
System Interfaces		This solution must interface with other applications, as described in the midlevel non-functional mandatory requirements. The system must be a scalable, robust, data collection, management and real-time reporting system.					
Data Center Locatio	n	Other					
	Other, specify	Vendor's Data C	enter				
Security	Access	☑ Public ☑ Internal State ☑ External State Staff					
	(check all that apply)	☐ Other, specify:					
	Type of Information	☐ Personal ☐ Health ☐ Tax ☒ Financial ☒ Legal					
	(check all that apply)						
	Protective Measures (check all that apply)	T Technical Security T Identity Authorization and Authentication T Physical Security TBackup and Recovery					
		☐ Other, specify					
Data Management	Data Owner		Seeger and Geoffre	y Ross			
		Title: Deputy Dir					
			m: DSFA and DFFA				
	Data Custodian	Name: HCD					
		Title: CIO					
		Business Program: ITB					



Select + t	to add busines	s functions/process	ses.			
2.10.1 Sc	lution Type					
	ative					
2.10.2 N	ame					
Alternati	ive 2: Augmen	t the existing Gran	ts Management Sy	stem (GMS)		
2.10.3 D	escription					
The alter	native was ev	aluated as augment	ing the existing HC	CD GMS system. The	GMS system is in use	e for two Federal
		G and CDBG-DR.				
Approac	pproach (Check all that apply):					
\boxtimes	Increase staf	f – new or existing (capabilities			
	Modify the existing business process or create a new business process					
	Reduce the s	ervices or level of s	ervices provided			
\boxtimes	Utilize new o	or increased contrac	ted services			
\boxtimes		existing IT system				
	Create a new	/ IT system				
\boxtimes	Perform a bu	ısiness-based procu	rement to have ve	ndors propose a solu	ution	
	Other, specif	y:				
2.10.4 Be	enefit Analysis	5				
Benefits	/Advantages					
The GMS	system is in u	ise and additional m	nodules can be ado	led.		
Many sta	iff are already	trained to use GMS	. .			
The SaaS	product is ma	intained and enhar	nced by the vendor	, and the maintenan	ce and enhancemen	t costs are
	in the licensin			,		
	to add benefit	~				
Disadvar	ntages					
	_	(NCB) procuremen	t methodology mu	st be used, which red	quires control agenc	y approvals.
A SaaS pi	roduct may no	t have the capabilit	y of supporting so	me of the HCD requi	rements and will req	juire customization.
The GMS	system may r	not have sufficient f	unctionality and fe	atures to provide a o	comprehensive solut	ion to replace
	gacy systems.		,	•	•	'
	o add disadva	ntages				
		A maticipate of '	Firms to Ashious O	hiastivas Aftau Duais	et Ca Live	
		Anticipateu	Objective 1	bjectives After Proje _{Fimoframo}	ect Go-Live	
Ohio	ective	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years
-	nber	within 1 real	2 Tears	3 Tears	4 16013	Over 4 rears
	.1		\boxtimes			
	.1	П	\boxtimes			
	.1					
						_
	4.1					
	.3		⊠ ⊠			
					Ц	
JCIECT 7	Select + to add objectives					
Fig	al Dansfit	•		cial Benefits After P	•	O
rınancı	ial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years



Inci	reased Revenues						
	Cost Savings			\boxtimes			
	Cost Avoidance		\boxtimes				
	Cost Recovery						
2.10	.5 Assumptions and	Constraints					
					al services, necessitati		
	conduct an NCB, which requires control agency approval. The current contractor will have to supply additional support						
				anticipates needing	g additional funds to r	nodify GMS.	
	elect + to add assumptions/constraints						
	.6 Implementation A	• •			/ L L III L L L L L L L L L L L L L L L		
	•		enhancement or nev	v system proposed	(check all that apply):		
	Enhance the current	•					
	Develop a new custo		IS (COTS)				
	Purchase a Commer		• •	<i>(</i>			
		•	another government	agency (Transfer)			
	Subscribe to a Softw	are as a Servic	e (SaaS) system				
	Other, specify:			\			
	•		(check all that apply):			
	Software as a Service		•				
			led by commercial ve	ndor			
	Platform as a Service		•	ndor			
		· · · · · · · · · · · · · · · · · · ·	ed by commercial ve	nuor			
	Infrastructure as a S		•	alvandar			
		· · · · · · · · · · · · · · · · · · ·	rovided by commercial		on of why cloud comic	as are not being	
	leveraged:	iii be ieveraged	by this afternative.	Provide a description	on of why cloud service	es are not being	
	icveragea.						
Ide	ntify who will modify	the existing s	ystem or create the i	new system (check	all that apply):		
	Agency/state entity			, ,	,		
\boxtimes	A vendor will be cor	itracted					
	Inter-agency agreen	nent will be est	ablished with anothe	er governmental age	ency. Specify Agency	name(s):	
	Other, specify:						
Ide	ntify the implementa	tion strategy:					
	All requirements wi	I be addressed	in this proposed pro	ject in a single impl	ementation.		
\boxtimes	Requirements will b	e addressed in	incremental impleme	entations in this pro	oposed project.		
	Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date.						
	Specify the year who	en the remaini	ng requirements will	be addressed:			
Ide			osed project will be r		•		
	The technology imp	lemented for t	nis proposed project	will be considered r	mission critical and pu	blic facing.	
2 10	7 Architecture Infor	mation					



Business Function/Process(es)		Accurately capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual					
			progress reports, and program financial information.				
					t; COTS, MOTS or custom solution;		
		stem interfaces, data o		nd, security.			
Application, System	or Co	omponent	System				
				in application, syste	em, or component.		
COTS, MOTS or Cus			SaaS				
		Primary Technology:	SaaS				
Runtime Environment	Clou	ud Computing Used?	⊠ Yes □ No	If "Yes," specify:	Software as a Service (SaaS)		
	Ser	ver/Device Function	Solr Servers, Citr	ix NetScaler, SQL S	erver		
		Hardware	N/A				
		Operating System	N/A				
		System Software	eCivis application				
		S	Select + to add system software				
System Interfaces			This solution will interact with interfaces as identified in the midlevel non-functional mandatory requirements to provide a scalable, robust data abstraction capable of interfacing and providing data in real-time.				
Data Center Location	on		Other – eCivis GMS data center				
		Other, specify					
Security		Access	☑ Public ☑ Internal State Staff ☐ External State Staff				
		(check all that apply)	☐ Other, specify:				
		Type of Information	☐ Personal ☐	Health □ Tax 図 I	Financial 🗵 Legal		
		(check all that apply)	☑ Confidential ☐ Other, specify:				
		Protective Measures	☑ Technical Security ☑ Identity Authorization and Authentication				
		(check all that apply)		rity ⊠Backup and			
			☐ Other, specify:				
Data Management		Data Owner		Seeger and Geoffre	ey Ross		
Ü			Title: Deputy Directors of DSFA and DFFA				
			Business Prograi	ms and DFFA			
		Data Custodian	Name: HCD				
			Title: CIO				
			Business Prograi	m: ITB			



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Camornia Dopartinont of Toolinology, Chillin Too (Nov. 2.17), Novidian 6/2 1/2010					
	iness functions/proce	esses			
2.10.1 Solution Typ	oe				
⊠ Alternative					
2.10.2 Name	accurate of aviation	a avatore used in a di	Marant state		
	ocurement of existing	g system used in a di	merent state		
2.10.3 Description				lucc	
	idopting, configuring,	and supporting an e	xisting system in use	in a different state f	or the same
business programs Approach (Check a					
	staff – new or existin	g canahilities			
	he existing business p	- '	w husiness nrocess		
·	he services or level o		ew basiness process		
	ew or increased contr	· · · · · · · · · · · · · · · · · · ·			
	the existing IT systen				
_	new IT system				
	a business-based pro	curement to have ve	ndors propose a soli	ıtion	
☐ Other, sp		carement to have ve	ndors propose a sole	2001	
2.10.4 Benefit Ana					
Benefits/Advantag	•				
-	ems development life	ecycle and associated	I time, cost, and risks	j.	
	es need for enhance	<u> </u>	, ,		
Decreases impleme	entation timeframe a	s Product should be	free of critical defect	s having gone throug	gh elaborate
	to implementation i				
	ngs as the software is				
	nited to consulting se	rvices for configurati	on and annual subsc	riptions for underlyir	ng software.
Select + to add ben	efits/advantages				
Disadvantages					
Product may need	significant modificati	on to support Califor	nia's unique laws and	d policies, which wou	uld eliminate the
	tomization and reduc				
	y have a monopoly o	n maintenance and o	pperations of the solu	ution if it was custon	n built.
Select + to add disa	advantages				
	Anticipate	d Time to Achieve O	bjectives After Proje	ect Go-Live	
	·	Objective 1	-		
Objective	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years
Number					
1.1		×			
2.1		×			
3.1		×			
4.1		×			
4.2		×			
4.3		×			
Select + to add obj	ectives				
	Anticipated Ti	me to Achieve Finan	cial Benefits After P	roiect Go-Live	

Financial Benefit

Within 1 Year

2 Years

3 Years

4 Years

Over 4 Years



Inci	reased Revenues						
	Cost Savings						
	Cost Avoidance		\boxtimes				
	Cost Recovery						
2.10	.5 Assumptions a	nd Constraints					
Proc	curing another sta	te's application ma	ay result in requiring	modifications to sup	port California's uni	que laws and	
				ncy Agreement (IAA)	with another State.		
Sele	ct + to add assum	ptions/constraints	5				
	.6 Implementation						
Ide			enhancement or nev	w system proposed (check all that apply)	:	
	Enhance the cur	•					
	Develop a new c						
		mercial off-the-She	• •				
\boxtimes		•	another government	agency (Transfer)			
	Other, specify:						
	-		(check all that apply	/):			
		rvice (SaaS) provid					
\boxtimes		• • •	led by commercial ve	endor			
		rvice (PaaS) provid					
			led by commercial ve	endor			
		a Service (laaS) pi	•				
			rovided by commerc				
		s will be leveraged	by this alternative.	Provide a description	n of why cloud servic	ces are not being	
	leveraged:						
Ide	ntify who will mo	dify the existing s	vstem or create the	new system (check a	all that annly).		
\boxtimes	Agency/state en	-	ystem of create the	new system (eneck t	in that apply,.		
	A vendor will be	•					
			ablished with anoth	er governmental age	ncv. Specify Agency	name(s): N/A	
				8	,,		
	Other, specify:						
Ide	Identify the implementation strategy:						
\boxtimes	All requirements	will be addressed	in this proposed pro	ject in a single imple	mentation.		
	Requirements w	ill be addressed in	incremental implem	entations in this pro	posed project.		
	Some requireme	ents will be address	sed in this proposed	project. The remaini	ng requirements will	be addressed at a	
	later date.						
			ng requirements will				
Ide	•		• •	mission critical and p			
		•	his proposed project	will be considered m	nission critical and pu	ublic facing.	
2 10	7 Architecture In	formation					



Business Function/I	Process(es)	Accurately capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information.				
	isiness process with the sam nt; system interfaces, data o	• •	•	t; COTS, MOTS or custom solution;		
Application, System	or Component	System				
		Select + to add a	an application, syste	em, or component.		
COTS, MOTS or Cus	tom	Modified off-the	e-shelf (MOTS)			
N	ame/Primary Technology:	TBD				
Runtime Environment	Cloud Computing Used?	⊠ Yes □ No	If "Yes," specify:	Select		
	Server/Device Function	TBD				
	Hardware	TBD				
	Operating System	TBD				
	System Software	TBD				
	9	Select + to add system software				
System Interfaces		This solution must interface with other applications, as described in the				
		midlevel non-functional mandatory requirements. The system must be				
		a scalable, robust, data collection, management and real-time reporting				
Data Carlanda anti-		system. Other - TBD				
Data Center Location		Other - 160				
Security	Other, specify Access	☑ Dublic ☑ lot	awal Ctata Ctaff	Trytownal Chata Chaff		
Security	(check all that apply)			External State Staff		
		☐ Other, specify				
	Type of Information		Health □ Tax 図 F	-inancial 🗵 Legal		
	(check all that apply)		☐ Other, specify:			
	Protective Measures			uthorization and Authentication		
	(check all that apply)	☐ Physical Secu	rity ⊠Backup and	Recovery		
		☐ Other, specify	/ :			
Data Management	Data Owner			oss and Megan Kirkeby		
			ectors DSFA, DFFA,			
			m: DSFA, DFFA, and	I HPD		
	Data Custodian	Name: HCD				
		Title: CIO				
		Business Progra	m: ITB			



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Select + to add business functions/processes.

2.11 Recommended Solution

2.11.1 Rationale for Selection

HCD recommends procurement and configuration of an enterprise Software-as-a-Service (SaaS) solution to replace HCD's legacy systems to accurately capture, organize, track, award, manage, and report on essential housing elements, Federal and State loans and grants, annual progress reports, and program financial information. This alternative was chosen because it is considered the best value to HCD and meets all the objectives stated in the project's Stage 1 Business Analysis (S1BA) document. The recommended solution aligns with HCD's strategic direction regarding using Cloud services whenever possible and is aligned with the State of California's Cloud First policy. Additionally, the recommended solution was deemed to be the best fit considering the degree to which the solution satisfies the business objectives, leverages existing marketplace technology, provides an acceptable timeframe for implementation, and aligns with HCD's and the state of California Information Technology strategic direction. Through market research, it was determined that this approach will be cost-effective and valuable in reducing key areas of project risk, including poor quality legacy data, requirements definition, and organizational change management. Additionally, the SaaS solution would provide an open-architected and customizable solution helping to ensure the system can continue to meet HCD's business needs as technology and business processes mature along with State and Federal regulations.

HCD anticipates using a Request for Proposal (RFP) process to acquire the SaaS solution. The existing business process diagrams, functional and system requirements, and other associated documentation developed during HCD's planning activities will be leveraged to streamline the SaaS configuration . HCD also anticipates requiring "to-be" use cases and /or user story documentation to be developed by the vendor to support development and testing activities. HCD, with the guidance of CDT, will score the responses to the solicitation(s) to ensure the best value with the least risk to the State is selected.

HCD's recommended SaaS solution approach would provide prioritized functionality by implementing the Minimum Viable Product (MVP) during the first year of the project. HCD would pursue additional incremental functional enhancements during subsequent iterations. This approach, rather than a "big bang" or "rip and replace" approach, reflects HCD's desire to minimize risk and maximize value through the release of prioritized functionality through incremental implementation using an agile development, test and implementation methodology. This approach will allow HCD to realize the benefits of key business process improvements, including online application submission and grant and loan awards early in the project. These early and significant process improvements would increase stakeholder confidence, constituent satisfaction, and Program Area adoption and support.

Attachment: Attach file to email submission.				
2.11.2 Technical/Initial CA-P	MM Complexity	Assess	ment	
Complexity				Complexity Zone
			Zone I	Low Criticality/Risk
Technical Complexity Score	2.6	\boxtimes	Zone II/III	Medium Criticality/Risk
			Zone IV	High Criticality/Risk
2.11.3 Procurement and Stat	fing Strategy			
Activity				
Solicitation Development				
Cost Estimate				
Responsible When Needed				Verification
(check all that apply)	(check all that apply)			(check all that apply)



 ☑ Agency/state entity staff ☑ STP staff ☑ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☑ Contractor ☐ Other, specify: 	 ✓ Stage 3 Solution Development ✓ Stage 4 Project Readiness and Approval After project is	 ☑ Market research conducted (MR) ☐ Cost estimate provided (CE) ☐ CDT CE ☐ DGS CE ☑ Request for Information (RFI) conducted ☑ Comparable vendor services have been used on precontracts (CV) ☑ Leveraged Procurement Agreement (LPA) 			vious		
Complete Only if Contract	or Responsible for Activity						
Procurement Vehicle	Request for Proposal/Informat Technology Consulting Services (ITMSA)		Contract Type		Fixed	Price (FP)	
If "Other," specify:			If "Other," spe	ecify:			
Independent Verification a	and Validation (IV&V)		· · ·				
Responsible	When Needed			Cost Estimate Verification			
(check all that apply)	(check all that apply)		-	heck all that ap	ply)		
 ☑ Agency/state entity staff ☐ STP staff ☑ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☑ Contractor ☐ Other, specify: 	 □ Stage 3 Solution Development ☑ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4 Project Readiness and Approval) 	Development ☐ Cost estimate provided (CE) Stage 4 Project ☐ CDT CE Readiness and ☐ DGS CE Approval ☐ Request for Information (RFI) conducted After project is approved (after Stage 4 Project Readiness and Cost estimate provided (CE) CDT CE Request for Information (RFI) conducted Comparable vendor services have been used on previous contracts (CV) Leveraged Procurement Agreement (LPA)				vious	
Complete Only if Contract	or Responsible for Activity						
Select + to add activities.							
						Yes	No
•	lentified above result in a comp cy/state entity's DGS delegated		· ·	ive solicitation		\boxtimes	
2.11.4 Enterprise Architec	ture Alignment						
The recommended solution identified in this alternative's analysis document aligns with HCD's target enterprise architecture.							
	Information Tech	nology C	apability Table	•			
Existing Enterprise New Enterprise Capability to be Information Technology Capability Leveraged Needed					oility		
Public or Internal Portal/Website]		
Public or Internal Mobile A	Application					×]
Enterprise Service Bus						X]



		·	· //			
Identity an	d Access Management		X			
Enterprise capabilities	Content Management (including dooss)	cument scanning and eForms		×		
Business In	ntelligence and Data Warehousing			×		
Master Da	ta Management					
Big Data A	nalytics					
2.11.5 Proje	ect Phases					
Phase	Project Approval					
	Description	Phase	Deliverable			
complete and documentar	Project Approval phase, IT will and submit the required PAL tion and request Agency and CDT funding approval.	 PAL Stage 1 Business Analysis – approved June 14, 2021 PAL Stage 2 Alternative Analysis Budget Change Proposal Financial Analysis Worksheet 				
Phase	Initiating and Planning					
		Phase	Deliverable			
Establish the HCD project team, solicit, hire and onboard consulting services to support procurement and project planning. Develop procurement and project planning approach and draft project charter.		 Procurement Approach Project Planning Appriach Project Charter Project Scope Project Objectives Milestones and Deliverables Work Breakdown Structure Defined Project Roles and Responsibilities Stakeholder Register Budget Human Resources Plan Risk Management Plan Communication Plan Stakeholder Management Plan 				
Phase	Procurement Phase					
	Description		Deliverable			
Refine business requirements, conduct market surveys, develop and release RFP to select a solution. Procure solution. Solicit, hire, and onboard consulting services to manage and oversee all aspects of the project in collaboration with HCD from planning, configuration, implementation and post golive evaluation through IV&V and transition to M and O.		 Market Research documentaiton Solution Requirements Required RFPs Procured Solution Onboarded Consulting Services 				
Phase	Configure and Implement					



	California Department of Technology, Shviivi 195 (Nev. 2.1), Nevision 3/21/2016
Description	Phase Deliverable
Using an agile development methodology, develop scope and sprints. This will continuously engage Project Stakeholders and Team members, soliciting timely feedback on each sprint to ensure the product backlog accurately and comprehensively reflects Stakeholder needs. Each sprint includes an initial review of the use case and/or user story inventory to ensure sufficient detail and acceptance criteria are documented to support sprint activities including: • Sprint documentation • Complete development • System, unit and integration testing • User acceptance testing (UAT) • Regression Testing	 Sprint work products (to be defined in Phase 3) PMP updates as needed Schedule updates Status Reports Training Requirements Traceability Defect and Enhancement Tracking System Daily Scrum Meetings
Phase Warranty and Maintenance and C	Operations
Description	Phase Deliverable
The transition to M and O will commence oonce the final group of use cases and/or user stories is migrated to production (post Configure and Implement Phased Enhancements P). During the M and O phase the SI will transition the system maintenance and operations to State staff. Knowledge transfer will occur throughout the project and staff training will be scheduled and conducted to prepare for the M&O transition.	 M and O Transition Management Plan Training Plan Delivered Training Knowledge Transfer documentation
Phase Ccloseout	
Description The Close Out phase includes administrative closure and contract close out. At a later date the Post Implementation Evaluation Report (PIER) will be submitted to formally close out the project from a reporting perspective.	 Phase Deliverable Contract Close Out Lessons learned Finalized Risk Register Issue Log Recommendations for successful sustaining M and O
Select + to add project phases.	
2.11.6 High Level Proposed Project Schedule	
Proposed Project Planning Start Date:	Propose d Project Plannin g End Date:



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Proposed Project Start	Propose			
Date:	d			
	Project			
	End			
	Date:			
a. .				

Start

Activity Name Date End Date

Stage 3 Solution Development

Stage 4 Project Readiness and Approval

Initiate/Plan

Requirements ELDesign, Configure and Implement

MVP

Configure and Implement Phased Enhancements -

Multiple Sprint Cycles

Transition to Maintenance and Operations

Close Out

Select + to add activities

2.11.7 Cost Summary

Total Proposed Planning Cost:

: 0

Total Proposed Project Cost:

\$25,218,053

Total Proposed Future Operations IT Staff

& OE&E Costs (Continuing):

\$20,686,648

Total Proposed Annual Future Operations

IT Costs (M&O): \$3,345,806

2.12 Staffing Plan

In this preliminary staffing plan, HCD identified how and when labor needs will be met to ensure the project has sufficient staff with the required skill sets and experience. Below are the identified roles and responsibilities will be further expanded in the project control documentation.

2.12.1 Administrative



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HCD Contract Manager:

- Provides oversight of the SaaS subscription contracts
- Ensures HCD review and approval of contracts is completed on schedule
- Provides interpretation of project contracts to project team
- Recommends course of action on contractual issues
- Participates in procurement and contract meetings
- Monitors, analyzes and mitigates procurement-related risks and issues
- Leads the development of RFP solicitations
- Prepares and processes solicitation documents
- Participates in procurement and contract meetings
- Coordinates contract activities
- Communicates progress weekly to the PM
- Escalates issues and concerns to the PM

HCD Vendor Selection PM Consultant:

- Creates the Procurement Approach
- Creates and maintains solicitation document(s) including the Statement of Work
- Creates and maintains the evaluation and acceptance criteria
- Facilitates the evaluation of supplier proposals/offers
- Develops the evaluation and selection report
- Supports the procurement(s) and award as necessary
- Works with the HCD ITB/CDT teams and assigned staff as required

2.12.2 Business Program



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HCD will provide program subject matter experts (SMEs) for the project who will work with the selected vendors, Project Managers and Project Management Consultant(s) to define business requirements, test and implement the solution. This team will be familiar with the programs' business needs and knowledgeable in the programs' business rules and requirements. Program Management, ITB, and the HCD Executive Team will assist in daily work reassignments and other workload assignments as needed to allow SMEs assigned to the project to fully focus their attention on project activities. For the project to be successful, staff must be dedicated to this project to ensure the availability and support necessary to ensure timely completion of tasks and responsibilities for project success.

HCD Executive Project Steering Committee and Sponsors:

- Champion, own and are accountable for the overall Project success
- Provide HCD executive support and strategic direction
- Establish and prioritize project objectives
- Ensure project is adequately funded
- Ensure sustained buy-in and project support across the enterprise at all levels
- Advocate for the project within the enterprise and with internal and external stakeholders
- Serve as the highest escalation for issues/decisions
- Ensure resources are available for risk management as needed
- Approve the Project Charter, PMPs, and significant changes in scope, cost or schedule
- Empower the Project Director(s) and Manager(s) with the appropriate authority
- Ensure an appropriately skilled Project Manager is selected for the project
- Provide final approval of project deliverables
- Chair Steering Committee

HCD Project Director:

- Provides project oversight
- Ensures deliverables and functionality are achieved as defined in the Project Charter and project plans
- Coordinates and ensures business organizational, policy, and procedure changes are implemented
- Facilitates sustained buy-in from business resources
- Ensures timely availability of needed business resources
- Ensures effective management of business resources assigned to the project
- Escalates decisions and issues, as needed, to the Project Sponsor
- Coordinates project-related issues with other efforts
- Reviews and resolves significant issues that the Project Manager or Team cannot resolve
- Works directly with the Project Manager to ensure project management practices are being employed, including risk management as identified in the Risk Management Plan
- Assists in resolving risks and/or issues that have been escalated to this level by the Project Manager
- Reviews changes to the Project Schedule

HCD Project Manager:

- Plans the Project, including the creation and maintenance of the PMP
- Ensures deliverables and functionality are achieved as defined in the governing documents
- Perform overall management of the project for HCD including day-to-day responsibility for activities within each phase, and management of the schedule for the project
- Acts as the principle interface to the contractors
- Accountable to the Project Directors and Project Sponsor for all Project Management Office (PMO) related activities
- Plans, directs, and oversees the day-to-day activities of the technical and program project teams
- Develops and/or oversees the master project schedule and all other project work plans
- Principal point of contact for control agencies, project contractors, and stakeholders
- Ensures that the project is implemented within the budget constraints



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- Directs and manages project work in conformance with project scope, schedule, cost and quality and all other subsidiary plans incorporated into the overall Project Management Plan
- Accountable for the development, maintenance, and adherence to the PMO methodologies (e.g., processes, procedures, standards, and templates) that follow best practices and policies
- Communicates project progress weekly to the HCD Business Owners and HCD Project Sponsors
- Communicates project status to the HCD Project Sponsors, Project Team, Project Directors, HCD staff, and external stakeholders
- Reviews deliverables and change requests and makes a recommendation to the HCD Business Owners and HCD Project Sponsor
- Coordinate project and stakeholder resource needs
- Identify, assess, prioritize, and manage risks/issues

HCD Business Lead(s)

- Serve as Product Owners
- Represent the business to the SI and Vendor development team
- Manage product backlog
- Must be available to the development team at all time

The program SMEs selected from the DSFA, DFFA, HPD and the Administration and Management Division (AMD) will be dedicated to the project and include the following resources:

- Business Owner, Business Managers, Key decision makers on system functionality All will work closely with the Project Manager and vendor team daily throughout the project lifecycle.
- SMEs will:
 - Serve as Specialists to recommend decisions on issues concerning business objectives; develop and agree to the project scope; review deliverables and recommend approval of deliverables and project acceptance
 - Support training and organizational change management consultant(s) and train staff on using the new system
 - Communicate process and procedural changes resulting from the new system implementation to trainees to help the users with the transition to the new system and processes.
 - Serve as user acceptance testers, develop test documentation and execute testing activities as prioritized by the Business Owners, Project Manager, Project Management Consultant, and Testing Consultant
 - Support Go/No-Go production implementation decisions

2.12.3 Information Technology (IT)



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Department of Technology IT Project Oversight (ITPOC)

- Coordinate Department of Technology oversight activities
- Evaluate the Project to ensure that it is following a structured and defined approach
- Collaborate with the Project Manager regarding project risks, risk mitigation and contingency strategies, and issue monitoring, mitigation and resolution
- Provide feedback and direction as needed

HCD IT Project Director

- Ensures timely availability of required IT resources
- Facilitates sustained adoption and support from all IT resources
- Ensures effective management of all IT resources assigned to the project
- Escalates decisions and issues, as needed, to the Project Sponsor
- Reviews and resolves significant IT issues that the Project Manager/Project Team cannot resolve
- Works directly with the Project Manager to ensure project management practices are being employed, including Risk Management as identified in the Risk Management Plan
- Assists in resolving risks and/or issues that have been escalated to this level
- Reviews and approves changes to the Project Schedule
- Communicates project status to external stakeholders in cooperation with the HCD Business Project Director and HCD Project Manager

HCD Information Security Manager

- Coordinates HCD information security activities
- Reviews and analyzes security and privacy risks and proposed mitigation strategies
- Validates the adequacy of proposed security controls
- Ensures the proposed system development and implementation adhere to State security policies and guidelines
- Supports HCD ITB staff as needed

HCD Enterprise Architect

- Provides input to the overall architecture of the proposed solution
- Participates in the review and revision of technical design documentation
- Oversees alignment of the solution with the Enterprise Architecture goals of the Department
- Escalates issues and concerns to the HCD Project Manager and/or the IT Project Director

HCD IV&V Consultant

- Provides independent perspective for reviews and meetings
- Monitors project activities and documents and presents potential risks, issues and challenges
- Evaluates project's adherence to industry standard Project Management methodologies
- Evaluates project Risk Management efforts
- Evaluates project progress toward completion of the project

HCD Project Management Consultant(s)

- Manages the project for HCD including day-to-day responsibility for planning and coordinating activities within each project phase
- Leads the management and organization of State staff assignments
- Leads contractor oversight
- Tracks and reports deliverables status against the Project Charter and Schedule
- Is accountable to the HCD Project Manager, HCD Project Director, and HCD Executive Project Sponsor for all HCD PMO activities
- Plans, guides, and oversees the day-to-day internal activities that support the HCD PMO
- Provides guidance on PMBOK methodology and other industry-standard project management techniques



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- Leads the effort to identify, document, manage and track risks and risk mitigation/contingencies on the project, leading risk identification sessions, ensuring regular reviews and follows the risk escalation process
- Oversees and coordinates the Change Management process
- Identifies resistance and performance gaps, and works to develop and implement corrective actions

HCD IT Technical staff (Business Analyst, Database Developers)

- Works closely with the Project Manager, Business Owners, and vendor to address technical related issues
- Determines IT team assignments and oversees execution of IT assignments
- Provides technical expertise as needed during configuration analysis and testing activities
- Performs testing activities
- Reviews technical related deliverables and recommends approval/disapproval of these deliverables
- Provides input as requested to Go/No-Go production implementation decisions
- Works with the Business SMEs to identify legacy data requiring correction and determines the most efficient and effective approach to modifying said data
- Executes queries on the HCD legacy system databases
- Helps the SI in the development, testing, and deployment of the interface(s) between the solution and other systems

2.12.4 Testing

HCD IT Testing Staff

- Collaborates with Project Manager and SI to develop and secures approval for the HCD Test Management Plan
- Sets up and maintains the test artifact repository
- Trains UAT SMEs team members on testing processes and procedures
- Works closely with the IT Test Coordinator, PM, PMC, Business Owners, SMEs, and SI vendor to facilitate all user acceptance test (UAT) related activities and production implementation verification
- Leads the planning and execution of all UAT Activities
- Collaborates with the SI Vendor in coordinating Go/No-Go decisions across the various State and vendor/consultant teams
- Works closely with the HCD T Management Consultant, SMEs, and SI vendor to provide guidance to all user acceptance test (UAT) related activities, develops plans and executes
- Provides guidance to the Test Management Consultant in the development of the HCD Test Management Plan and recommendations to the PM for approval/improvement/changes etc.
- Prepares test scripts with a focus on area of expertise
- Performs preparation and execution of testing activities
- Performs production validation activities
- Documents any issues identified in a defect and incident tracking tool

SI Vendor

- Responsible for creating a Master Test Plan to guide testing activities within their scope
- Performs unit testing, integration testing, system testing, security, regression, performance and load testing, and end-to-end testing
- Fully documents test activities and outcomes in the Project Repository

HCD Business SMEs

- Participate in requirements development, analysis and configuration meetings, demonstrations and working sessions to prepare for testing activities
- Serve as a Trainer for coworkers
- Participate in User Acceptance Testing

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2.12.5 Data Conversion/Migration

GMS, eGrants, HETS, APR, CAPES data cleanup TBD

2.12.6 Training and Organizational Change Management

HCD anticipates a "Train-the-Trainer" approach will be used throughout the project, with the SI vendor providing thorough system documentation and training to the Business SMEs assigned to the project. SMEs will be responsible for developing training curriculum and documentation to support their training activities for users within their Program Area. System technical training and knowledge transfer will be provided by the SI vendor and other applicable consultants to HCD's ITB staff.

No significant business disruption or customer impact is expected during solution implementation or staff training:

SI Vendor will:

- Provide thorough system functional training to the Business SMEs assigned to the project
- Provide thorough system technical training and knowledge transfer to HCD identified technical SMEs

HCD OCM and Training Consultant(s) will

- Lead the Organizational Change Management and Training efforts required for project success
- Develop the OCM and Training Plans
- Create and execute a "Train the Trainer" methodology for the project
- Support the SMEs responsible for developing training curriculum and documentation to support their training activities for users within their respective Program Area (s)
- Work closely with the business owners and SMEs to develop a plan and execution strategy to support the changes required for the proposed solution
- Facilitate HCD staff awareness of, desire to, knowledge of, ability to and reinforcement of adoption and use of the new system and new processes and procedures to embrace and successfully use the new system.

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

HCD and CDT have the requisite experience to assist in the procurement activities for the PAL Stage 3 Solution Development effort. HCD procurement staff have robust experience working with the procurement vehicles identified for this project. Aside from leading the procurement phases of large projects with similar scope (CAPES and GMS), HCD staff have successfully executed the purchased many items using leveraged procurement agreements. HCD will assign dedicated resources to the project procurement effort who have extensive procurement knowledge and experience with the proposed procurement methodology, bidding, evaluation, contract deliverables, protest types and the use of Public Contract Code PCC 6611. HCD has in place a comprehensive governance framework which includes procurement-related and project-related decision-making protocols.

HCD has assigned a dedicated team to focus on development of the detailed functional, non-functional, and project transition requirements for PAL Stage 3. Members of this team have extensive business program knowledge and experience in detailed requirements definition, management, and traceability. This team also will define HCD-specific requirements processes to support requirement management, traceability, and verification throughout the Consolidated Housing Accountability Application Procurement Project.

The HCD PM will be actively involved in management, progress tracking, and risk management activities during HCD's completion of PAL Stage 3 activities. In addition, the HCD PM will develop all required project control documentation. The HCD PM has extensive experience and knowledge required to help ensure successful completion and submission of PAL Stage 3 documentation.

2.12.8 Project Management



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2.12.8.1 Project Management Risk Assessment		
Project Management Risk Score:	.5	
Attachment: Attach file to email submission.		
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	No
Scope Management Plan	No
Risk Management Plan	No
Issue and Action Item	No
Management Plan	NO .
Communication	No
Management Plan	NO .
Schedule Management Plan	No
Human Resource	Not Applicable
Management Plan	Not Applicable
Staff Management Plan	Not Applicable
Stakeholder Management	No
Plan	140
Governance Plan	No

2.12.9 Organization Charts

Attachment: Attach file to email submission.

2.13 Data Conversion/Migration

Identify the status of each of the following data conversion/migration activities:

Data Conversion/Migration	In	Data Quality	
Planning	Progress	Assessment	Not Started
Data Conversion/Migration	Not	Data Quality	
Requirements	Started	Business Rules	Not Started
Current Environment	Not		
Analysis	Started	Data Dictionaries	Not Started
	Not	Data Cleansing and	
Data Profiling	Started	Correction	Not Started
hhhh			

Attachment: Attach files to email submission.

2.14 Financial Analysis Worksheets

Attachment: Attach file to email submission.

Preliminary Assessment – Department of Technology Use Only

Original "New Submission" Date	7/8/2021
Form Received Date	9/8/2021
Form Accepted Date	9/8/2021
Form Status	Completed



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Form Disposition	Approved	
Form Disposition Date	1/10/2022	