

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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April 15, 2024

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu, Hawaii 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-Second State Legislature State Capitol, Room 431 Honolulu, Hawai'i 96813

Aloha Senate President Kouchi, Speaker Saiki, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawai'i, Department of Health, BHA Integrated Case Management System Project.

In accordance with HRS section 93-16, this report may be viewed electronically at http://ets.hawaii.gov (see "Reports").

Sincerely,

Douglas Murdock (Apr 15, 2024 11:15 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)





Hawaii BHA Integrated Case Management System Project – *Phase 4*

IV&V Report for the period of

March 1 - March 31, 2024

Submitted: April 12, 2024



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





R4.5 regression testing was completed successfully. R4.5 was deployed to production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. As of the March reporting period, the Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. R4.5 regression testing was a combination of automated and manual testing and was completed successfully. R4.6 regression testing is also expected to be a combination of manual and automated regression testing.

Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5. Four (4) of these bugs are deployment-related. IV&V will monitor the progress and quality of the R4.5 deployment.

CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions and next steps regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR features will be developed. The finding (#32) was closed during this reporting period.

The Fast Healthcare Interoperability Resources (FHIR) project is continuing to progress. The System Integrator (SI) vendor and Microsoft (MS) are currently testing with Apple Health.

Jan	Feb	Mar	Category	IV&V Observations
Y	(Y)	Y	Sprint Planning	As of the March reporting period, BHA plans to schedule separate product backlog review meetings. Previously, these meetings were conducted during the design meetings and weekly issues meetings. Discussions regarding new functionality/features in R4.6 that would warrant demonstration
				are ongoing. Accordingly, as part of Sprint Reviews, the vendor should schedule demonstrations of new functionality/features.
G	G	User Story (US) Validation		There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the March reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.

Jan	Feb	Mar	Category	IV&V Observations
R	Y	Y	Test Practice Validation	As of the March reporting period, the Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. As an additional R4.4 post-production bug has been identified, the efficacy of regression testing should be evaluated. R4.5 regression testing was a combination of automated and manual testing and was completed successfully. R4.6 regression testing is also expected to be a combination of manual and automated regression testing.
				CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process.
R	R	Y	Release / Deployment Planning	R4.5 regression testing was completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5; four of these bugs are deployment related, three fixes have been deployed. IV&V will monitor the progress and quality of the R4.5 deployment.
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the March reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the March reporting period. IV&V will continue to monitor.

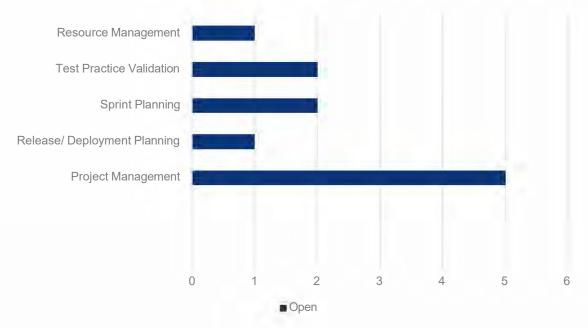


Jan	Feb	Mar	Category	IV&V Observations
G	G	G	Project Performance Metrics	There are no project performance metrics to report for this reporting period. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.
О	i i i i i i i i i i i i i i i i i i i		This category remains Green for the March reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.	
Э		Project Management Project Management System's function of the performation of the performance of the perf	1 -	Performance issues were identified in 2023 that could have a potential impact to the system's functionality, reliability, and user experience. BHA and the SI vendor are having discussions to define the scope and schedule and to estimate the effort and cost to conduct a performance test prior to R4.6 implementation on 5/30/24. The plan is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the performance test.
Ĭ	•		CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR features will be developed. The related finding, #32), was closed during this reporting period.	
				The Data Exchange Agreement (DEA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DEA is executed.
R	R	Y	Resource Management	As an update to Finding #34, DDD plans to request one (1) business analyst position to address resource shortages.



As of the March 2024 reporting period, eleven open findings were updated, and one finding was closed – eight (8) Medium Issues, two (2) Medium Risks, and one (1) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, and Project Management and Resource Management assessment areas are currently open.







Assessment Categories

Throughout this project, IV&V verifies and validates activities performed in the following process areas:

- Sprint Planning
- User Story Validation
- Test Practice Validation
- Release / Deployment Planning
- On-the-Job Training (OJT) and Knowledge Transition (KT) Sessions
- Targeted Knowledge Transition (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management
- Resource Management



Sprint Planning

#	Key Findings	Criticality Rating
31	Medium Risk: Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs.	
	Finding Update: Discussions regarding new functionality/features in R4.6 that would warrant demonstration are ongoing. Accordingly, the vendor should schedule demonstrations of new functionality/features as part of Sprint Reviews.	M

Recommendations	Status
 According to Agile Best Practices, IV&V recommends including Sprint reviews and demos in future releases (R4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review important metrics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder engagement, quality assurance, transparency, and the incorporation of user feedback. 	In Progress
 Strengthen the collaboration between development teams and stakeholders by enhancing communication channels. Regularly validate project objectives and ensure that sprint deliverables remain consistent with stakeholder requirements 	In Progress
 Foster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos. Emphasize the value of iterative feedback to guide development and ensure that user needs are consistently met. 	Open



Sprint Planning (cont'd)

Recommendations	Status
• Establish standardized communication protocols for both Sprint Reviews and Sprint Demos. Encourage teams to deliver concise and informative progress reports, including achievements, challenges, and future plans. This will enhance stakeholder engagement and project transparency.	In Progress
Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement.	In Progress
 Institute a structured documentation process for both activities. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement. 	Open

Sprint Planning (cont'd)

#	Key Findings	Criticality Rating
41	Medium Risk: Absence of separate dedicated product backlog review meetings can pose several challenges for a project team Finding Update: BHA to schedule separate product backlog review meetings.	M

Recommendations	
 Separate dedicated product backlog review meetings (during sprints) would allow clarifying any ambig or uncertainties, re-prioritization, estimation and refinement of backlog items. This would allow the pro- team to avoid situations where decisions about including items Mid-sprint would have to be taken. 	
 IVV recommends scheduling separate dedicated product backlog review meetings (during sprints) who relevant stakeholders are invited to review the product backlog and scheduled at the appropriate time such that there is sufficient time to plan the design, development, and implementation (DDI) of the ne release(s). 	e(s)



Test Practice Validation

#	Key Findings	Criticality Rating
	Medium Issue: As a result of automated regression testing not being comprehensively performed, production releases are breaking and/or deprecating existing functionality in the production environment.	
2		

Recommendations	Status
 Having board(s) in Azure DevOps or a document on SharePoint that provides information about the status of regression testing automation, to facilitate visibility and transparency to BHA project personnel and stakeholders. 	In Progress
 Schedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This will ensure that the schedule is not impacted and that the work is done efficiently between regression testing and GR. 	In progress
 Pursue and complete additional formal training in Azure DevOps and Tricentis for test automation at the earliest possible juncture and complete efforts to automate the 2 primary regression test scripts. 	In progress



Test Practice Validation (cont'd)

Recommendations	Status
Determine if current regression testing timeframes are adequate, and if not, add more time production regression test efforts for all release deployments.	to the pre-

Test Practice Validation (cont'd)

#	Key Findings	Criticality Rating
40	Medium Issue: Improvements to the testing process are needed to ensure adequate CAMHD participation and comprehensive testing of functionality prior to production deployment. Finding Update: CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process.	M
Recoi	nmendations	Status

Recommendations	Status
Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.	In Progress
Review the overall testing process and implement any needed improvements identified.	Open

Release / Deployment Planning

#	Key Findings	Criticality Rating
32	Closed Medium Issue: Golden Record (GR) project delays are likely to delay the implementation of future features and functionality. Finding Update: CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR development will be conducted. Finding closed.	M

Recommendations	Status
 Identify stakeholders (output is stakeholder register) and develop a RACI matrix for the project to ensure adequate communication and stakeholder participation. 	Open
 Identify the objective of implementing GR production data use, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR. 	In Progress
 Prior to implementation of the GR production data use, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should be confirmed, and all open defects sho be resolved. 	ould In Progress
Analyze the impact on the future functionalities and assess the implications if this strategic change is nee	ded. In Progress
 GR working sessions should be resumed until there is clarity on remaining work to be completed, timeline completion, etc. 	e for Open



Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
39	Medium Issue: Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments. Finding Update: Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5. Four (4) of these bugs are deployment-related. R4.5 was deployed to Production on 3/28/24, and smoke testing in Production is scheduled for 4/1/24. IV&V will monitor the progress and quality of the R4.5 deployment.	M
Rec	ommendations	Status
fa	he Project should consider automating deployments for resource savings, increased efficiency, consistency, aster time to market, improved collaboration and reliability, scalability, version control integration, and rollback apability.	Open
	nsure there are adequate and qualified resources to support the current deployment processes. This may	Open

•	Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.	Open
•	As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	Open
•	Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations across environments, ensuring that the test environment is capable of	Open

testing ALL functions of any given release without the need for using multiple test environments.



Release / Deployment Planning (cont'd)

Recommendations	Status
 Request the assistance of the RSM Solution Architect in the review of deployment scripts as a double-check for accuracy and completeness prior to commencing deployment activities. 	Open
 The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls. 	Open
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences. 	Open
• IV&V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH.	Open
 Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Open
 Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production. 	Open
 Develop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production and production environments. This will help to ensure that all components needed to test have been properly deployed prior to the actual execution of test activities. 	Open



Project Management

#	Key Findings	Criticality Rating
	Medium Issue: Due to multiple quality concerns, the Project may continue to face impactful system defects.	
14	Finding Update: R4.5 regression testing was completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. Three (3) (2 critical, 1 medium) of six (6) R4.4 post-production bugs (severity: 2 critical, 2 high, 1 medium, 1 TBD) have been fixed and tested (in the development and test environments) and fixes deployed to production in R4.5. IV&V will monitor the progress and quality of R4.5.	M

Recommendations	Status
Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	In Progress
 Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected. 	In Progress
Assign dedicated resources to provide oversight and monitoring of CAMHD Fiscal Processes	Open
Monitor implemented IV&V recommendations for effectiveness.	In Progress

#	Key Findings	Criticality Rating
	Medium Issue: Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.	
33	Finding Update: To address the IV&V recommendation #1, BHA and the SI vendor are having discussions to define scope, schedule, and to estimate the effort and cost to conduct a performance test prior to R4.6 implementation on 5/30/24. The plan is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the performance test.	M

Recommendations	Status
• The last performance test was executed in June 2023 for phase 3 releases (R3.x). ~800+ new User Story Points (USPs) have been developed since the last performance test execution. IV&V recommends BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality.	Open
Conduct load and performance testing for each release with significant new features/functionality.	Open
Create a plan for comprehensive performance testing and address any performance bottlenecks.	Open
Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	Open
 Execute test scripts that measure the run-time for execution of long-running transactions. E.g., calculator functionality/transactions and monitoring results over time. 	New

#	Key Findings	Criticality Rating
	Preliminary Concern: Lack of an ongoing cleanup process may lead to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	
35	Finding Update: Standardizing (ongoing process) tags used in Azure DevOps and cleaning up the Azure DevOps environment is an ongoing process. E.g., some post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). IV&V will monitor the progress.	N/A
Rec	ommendations	Status
S	revOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environment hould be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE roject management and tracking needs.	In Progress
	configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue pres, custom fields, and other settings are aligned with the project's needs and industry best practices.	In Progress
а	optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they occurately reflect the status of work, and they are designed to facilitate efficient tracking and collaboration. his will help streamline and make it easier to find relevant information.	In Progress
	ser Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using the pol effectively. Share best practices for issue creation, workflow management, and collaboration.	Open
	stablish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, djust workflows as needed, and ensure that configurations remain aligned with evolving needs.	Open



#	Key Findings	Criticality Rating
36	 Medium Issue: Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns. Finding Update: The Data Exchange Agreement (DEA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DEA is executed. 	M

R	ecommendations	Status
•	Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence.	Open
•	Create and baseline a comprehensive project schedule for Phase 4 and future project phases in MS Project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing.	Open
•	Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	Open

#	Key Findings	Criticality Rating
42	Medium Issue: Ineffective governance and communication among stakeholders can significantly impact a project in several ways, e.g., stakeholder disengagement, conflict and tension, misalignment of objectives, increased risks, unclear roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden Record/Master Data Management (MDM). The lack of effective governance and communication among stakeholders can result in project delays, budget overruns, and decreased quality. It's essential for project managers and stakeholders to prioritize clear communication and establish robust governance structures to ensure project success.	M
	Finding update: Division heads from three (3) divisions, the Developmental Disabilities Division (DDD), Child & Adolescent Mental Health Division (CAMHD), and Alcohol & Drug Abuse Division (ADAD), met in March 2024 to discuss and resolve Golden Record-related issues. DDD has added a Policy & Procedures-related agenda item to the monthly DOH BHA IT Solution Project Steering Committee meetings.	
Rec	ommendations	Status
e	reate a Governance Structure: Implement a governance structure that defines decision-making processes, scalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has uthority, and how issues will be resolved.	Open
a	evelop a Stakeholder Registry, RACI chart, and Stakeholder Engagement Plan: Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to ddress the needs and preferences of different stakeholders, ensuring their active involvement and support.	Open
in	learly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder volved in the project, would ensure that everyone understands their duties and how they contribute to the oject's success.	Open



Recommendations	Status
 Encourage Open Communication and Feedback: Foster a culture of open communication and feedback where stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-solving. Keep stakeholders informed about project progress, milestones, and key developments through regular updates and progress reports. Highlight achievements, challenges, and any changes to the project plan or scope. 	Open
 Resolve Conflicts Promptly: Address conflicts and disagreements among stakeholders promptly and professionally. Encourage dialogue, active listening, and compromise to find mutually acceptable solutions that support project goals. 	Open
 Manage Expectations: Manage stakeholders' expectations by setting realistic timelines, budgets, and deliverables. Foster a culture of transparency about project constraints and risks and proactively communicate any changes or deviations from the plan. 	Open
Evaluate and Adapt: Continuously evaluate the effectiveness of governance and communication processes and adjust as needed. Solicit stakeholders' feedback to identify areas for improvement and continuously refine your approach.	Open

Resource Management

#	Key Findings	Criticality Rating
34	Medium Issue: A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays. Finding Update: No change since the February reporting period.	M

Recommendations	Status
BHA should explore options for offloading project team members' daily responsibilities to other staff.	In Progress
BHA should work quickly to backfill vacated project team member positions.	Open
BHA should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which are presently being handled by BHA members.	Open
BHA should explore the use of contractors to fill open project positions.	Open

Project Performance Metrics

Metric	Description	IV&V Observations		Jpdates		
			Velocity	Metric Trei	nds:	
	Review and validate the velocity data as		Release	Planned Velocity	Actual Velocity	Percentage Attained
Velocity	reported by the project Verify the project is	March – Velocity was estimated at 95 USPs for R4.5, 76 R4.5 USPs were promoted to production on 3/28/24.	R4.5	95	76	80%
	on pace to hit the total target number of US/USP					

Project Performance Metrics (cont'd.)

Metric	Description		IV&V Updates
Defect Metrics	Understand and track the following: Defects by category (bug fixes) USPs assigned to defects in a release vs. USPs assigned to planned US in a release	March - Velocity was estimated at 95 USPs for R4.5, 76 R4.5. USPs were promoted to production on 3/28/24. 83% of the USPs were associated with user stories and requests. 17%* of the total USPs were associated with defects encountered during the release effort or pulled from the backlog.	The defect percentage for March was 17%* which is under the target range of 20% or less of all USPs promoted to production.

Note *: this defect percentage does not include defects under warranty that are assigned zero (0) User Story Points.





Appendix AIV&V Rating Scales

This appendix provides the details of each finding and recommendation identified by IV&V. Project stakeholders are encouraged to review the findings and recommendations log details as needed.

- See Findings and Recommendations Log (provided under separate cover)
- IV&V Assessment Category Rating Definitions



The assessment category is under control and the current scope can be delivered within the current schedule.

The assessment category's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal.

The assessment category is proceeding according to plan (< 30 days late).

The assessment category is under control but also actively addressing resource, schedule or scope challenges that have arisen. There is a clear plan to get back on track.



The assessment category's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the assessment category.

Schedule issues are emerging (> 30 days but < 60 days late).

Project Leadership attention is required to ensure the assessment category is under control.

The assessment category is not under control as there are serious problems with resources, schedule, or scope. A plan to get back on track is needed.



The assessment category's risks and issues pose significant challenges and require immediate mitigation and/or escalation. The project's ability to complete critical tasks and/or meet the project's objectives is compromised and is preventing the project from progressing forward.

Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned.

Executive management and/or project sponsorship attention is required to bring the assessment category under control.



Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
0	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
0	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



Appendix B

Inputs

This appendix identifies the artifacts and activities that serve as the basis for the IV&V observations.

Meetings attended during the March 2024 reporting period:

- Daily Scrum Meetings
- 2. Daily Design Meetings
- 3. Twice Weekly RSM Issues Meeting
- 4. Weekly BHA-ITS Program Status Meeting
- 5. Bi-Weekly Check-in: CAMHD
- 6. Bi-Weekly Check-in: DDD
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- 8. IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. DOH BHA IT Solution Project Steering Committee
- 10. Joint meeting with DDD and CAMHD

Eclipse IV&V® Base Standards and Checklists

Artifacts reviewed during the March 2024 reporting period:

- Daily Scrum Notes
- 2. Twice Weekly Issues Meeting Notes
- 3. Weekly BHA-ITS Program Status Report





Appendix C Project Trends

Process Area	Jun		August	September	October	November	December	January	February	
User Story /alidation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Resource Management										
Total Open Findings	4	5	11	11	11	10	10	11	12	11
Issue - high	0	0	2	2	2	2	2	5	12	0
Issue - medium	4	3	5	5	5	4	4	4	12	8
Issue - low	0	0	0	0	0	0	0	0	12	0
Risk - high	0	0	0	0	0	0	1	0	12	0
Risk - medium	0	1	2	2	2	2	1	1	12	2
Risk - low	0	0	0	0	0	0	0	0	12	0
Preliminary Concern	0	1	2	2	2	2	2	1	12	1



Solutions that Matter

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
2	As a result of regression testing not help-	P2 2 introduced a defect that deprecated features in	Thorough vetting and validation of regression test cases	1 Having board(s) in Azuro DovOns or a dos	03/31/2024 - R4.5 regression testing was a	Test Practice	Iccup	Medium	Open		12/31/2019	Gautam	-
2	As a result of regression testing not being consistently performed, production releases	R3.3 introduced a defect that deprecated features in production specific to Integrated Support and Life Trajectory	Thorough vetting and validation of regression test cases are necessary to prevent both defects and the deprecation of	 Having board(s) in Azure DevOps or a document on SharePoint that provides information about the 	combination of automated and manual testing	Validation	Issue	iviedium	Open		12/31/2019	Gautam	
	are breaking and/or deprecating existing	functionality. DDD has informed IV&V that there are other	production functionality when a release is pushed live. When	status of regression testing automation, to facilitate	and was completed successfully. The Tricentis	Validation						Guivady	
	functionality in the production environment.	examples of functionality being deprecated after a release,	defects occur in production, the project should follow a defined	visibility and transparency to BHA project personnel	regression testing tool coaching sessions have								
	ranctionality in the production environment.	some of which are still being investigated. As of this report,	and repeatable process for determining the root cause of the	and stakeholders.	been completed. IV&V will continue to monitor								
		IV&V has not evaluated the project's root cause analysis (RCA)		and stakenoliders.	and review automated regression testing results								
		process used to determine why such functionality was	problem.	2. IV&V recommends reevaluating the schedule	and status reporting. As an additional R4.4 post-								
		deprecated but will discuss further with BHA in January 2020.		priorities by distributing the work according to the	production bug has been identified, the efficacy								
		deprecated but will discuss further with bria in sandary 2020.		resource bandwidth. This will ensure that the	of regression testing should be evaluated.								
				schedule is not impacted and that the work is done	Minimal progress has been made in developing								
				efficiently between regression testing and Golden	and executing automated regression test cases.								
				Record (GR).	BHA is planning the upgrade of the Tricentis								
				necora (on).	automated regression testing tool, Tosca 2021								
				3. Pursue and complete additional formal training in	version to the 2023 version. R4.6 regression								
				AzureDevOps and Tricentis for test automation at the									
				earliest possible juncture and complete efforts to	automated regression testing.								
				automate the 2 primary regression test scripts.	automated regression testing.								
				automate the 2 primary regression test scripts.	03/30/3034 D4 5 development is seen in The								
				IVOV	02/29/2024 - R4.5 development is ongoing. The								
			1	IV&V recommends DDD and CAMHD to develop a	soft code freeze was on 2/29/2024, and go-live		1	1		1	1	1	I
				common and consistent approach across divisions for							1		
			1	performing regression testing.	contemplated a mid-sprint deployment (MSD)		1	1		1	1	1	I
			1	L	for 3 items: Adverse Event Report (AER), Maui		1	1		1	1	1	I
				4. Determine if current regression testing timeframes									
				are adequate and if not, add more time to the pre-	deployed on 2/29/2024, and the remaining two								
				production regression test efforts for all release	will be deployed in R4.5. Tricentis coaching								
				deployments.	sessions and coding of the automated testing								
					for R4.5 are ongoing. R4.5 regression testing								
				Updating the regression test scripts to ensure	execution is planned in mid-March 2024. BHA is								
				consistency with system configuration.	reporting the progress and status of automated								
				Modifying release schedules to allow for regression	regression testing. IV&V will continue to								
				testing timeframes	monitor and review automated regression								
				Planning releases by functionality type to avoid	testing results and status reporting.								
				unnecessary repetitive work being performed in any									
				given section of the solution.	01/31/2024 - Tricentis coaching sessions and								
14	Due to multiple quality concerns, the project	System defects identified in August that affected claims were	The identified quality issues have negatively affected DOH billing	Evaluate existing project staff skills and experience	03/31/2024 - R4.5 regression testing was	Project Management	Issue	Medium	Open		9/30/2020	Gautam	
	may continue to face impactful system	due to multi-faceted quality issues were individually addressed		level to ensure they meet BHA support requirements.	completed successfully. R4.5 was deployed to		1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gulvady	
	defects.	during this reporting period. IV&V notes that there is one	defects discovered to date.	lever to crisure they meet brist support requirements.	Production on 3/28/24, and smoke testing in							Cuirday	
	delects.	remaining defect still being evaluated that affects a limited	defects discovered to date.	Perform CAMHD revenue neutrality fiscal balance	production is planned for completion on 4/1/24.								
		number of claims. Overall, the Project Team has responded		testing on a quarterly basis to ensure revenues are as									
		with a commitment to increase project quality and is in the		expected.	post-production bugs (severity: 2 critical, 2 high,								
				expected.	1 medium, 1 TBD) have been fixed and tested								
		process of identifying improvements to associated testing processes. These currently include: Performing Revenue			(in the development and test environments)								
		1		Assign dedicated resources to provide oversight of									
		Neutrality Testing to ensure expected revenue streams are			and fixes deployed to production in R4.5. IV&V								
		largely unchanged from one period to the next. Conducting		CAMHD Fiscal Processes.	will monitor the progress and quality of R4.5.								
		System Integration Testing, User Acceptance Testing,		l									
		Performance Testing, and Regression Testing for Release 3.10.		Monitor implemented improvements for	02/29/2024 - Three (3) of four (4) post-								
		IV&V will continue to monitor the testing efforts throughout		effectiveness.	production bugs (severity: 2 critical, 1 high, 1						1		
		the balance of Release 3.10 and validate that enhanced quality		I	medium) have been fixed and tested (in the						1		
		processes, including industry standard regression testing,		IV&V recommends performing an RCA in	development and test environments), and the								
		continue for Agile Release 3.11 forward. Finally, IV&V reviewed		collaboration with RSM after all future release	fixes are to be deployed to production in R4.5.								
1	1	and provided feedback on the Help Desk and Semantic Layer	1	deployments for continual quality improvement.	One (1) post-production bug is yet to be created		1	1		1	1	1	I
1			1	I	in DevOps. IV&V will monitor the progress and		1	1			1	1	
		design documents per request and found that both documents					1	1	ı	ı	1	1	I
		design documents per request and found that both documents lacked design details.		BHA and RSM to collaborate on the necessary	quality of R4.5.		1	1					
				revisions to the submitted design deliverables to									
					01/31/2024 - R4.4 was deployed on								
				revisions to the submitted design deliverables to increase level of detail and quality.	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs								
				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD)								
				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor								
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				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor								
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				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Dedicate sufficient time in between releases for BHA and RSM to excutely/implement RCA correction	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor and BHA are currently analyzing. IV&V will monitor the progress. Priority was changed from Medium to High.								
				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Dedicate sufficient time in between releases for BHA and RSM to excutely/implement RCA correction	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the S1 vendor and BHA are currently analyzing. IVBV will monitor the progress. Priority was changed from Medium to High. 12/31/2023 - R4.3 Golden Record (GR) mid-								
				revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Dedicate sufficient time in between releases for BHA and RSM to excutely/implement RCA correction	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI wendor and BHA are currently analyzing. IV&V will monitor the progress. Priority was changed from Medium to High. 12/31/2023 - R4.3 Golden Record (GR) midsprint deployment (MSD) went live on								
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ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
31	Lack of regular Sprint reviews and sprint	Earlier in the project, end-of-sprint demos were conducted.	Based on Agile Best Practices, Sprint Demoes or reviews occur	According to Agile Best Practices, IV&V recommends	03/31/2024 - Discussions regarding new	Sprint Planning	Risk	Medium	Open		7/26/2023	Gautam	
- [demos will likely lead to misalignments	Sprint reviews/demos help to bring alignment across the team	during a sprint with the development team, scrum master, and	including Sprint reviews and demos in future releases							1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gulvady	
l l	between delivered work and stakeholder	and stakeholders. They are essential building blocks for better	product owner.	(R4.2 and onwards) with all relevant stakeholders to	warrant demonstration are ongoing.								
- 1	needs.	software and teams. Sprint demos /reviews showcase the		assess the completion of user stories, review	Accordingly, the vendor should schedule								
- 1		main functionality to stakeholders and incorporate their	Sprint reviews/demos are crucial in bringing alignment across the	important metrics and outcomes, and confirm if the	demonstrations of new functionality/features as								
- 1		feedback. Currently, the project has joint testing involving the	team and stakeholders. It is a great opportunity for the product	Sprint goal has been achieved. This approach would	part of Sprint Reviews.								
- 1		SI and BHA personnel. Per Agile Best practices, IV&V believes	owner, stakeholders, and the team to review what's being	also help ensure the backlog is prioritized and well-									
- 1		having Sprint demos/reviews during a sprint helps clarify and	delivered and receive feedback. This way, the team can gauge	prepared for the next Sprint. These are some	02/29/2024 - Discussions are on-going about								
- 1		validate design prior to testing, steer the team in the right	responses and make observations earlier during development	recommendations for project alignment, stakeholder	R4.5 and R4.6 new functionality/features that								
- 1		direction, and help to avoid big mistakes. This would also allow		engagement, quality assurance, transparency, and	would be demonstrated. Accordingly, the								
		the testing team to focus solely on testing, which is beneficial.	accomplishments is also an essential part of these demos.	the incorporation of user feedback.	vendor to schedule demonstrations of new								
			Moreover, they are invaluable in steering the team in the right		functionality/features as part of Sprint Reviews.								
			direction and avoiding big mistakes. It's interesting to note that	Strengthen the collaboration between									
			the Sprint demo could bring to light bugs such as R4.1 bug 34055	development teams and stakeholders by enhancing	01/31/2024 - The vendor to schedule								
			on the Portal, where the checkbox is on the left of the text.	communication channels. Regularly validate project	demonstrations of new functionality/features as								
			,	objectives and ensure that sprint deliverables remain	part of Sprint Reviews going forward.								
- 1				consistent with stakeholder requirements.									
- 1					12/31/2023 - The vendor and BHA have a								
		1	1	Foster active participation from users and	product backlog review process in place. IV&V	1	1	I			1	1	1
		1	1	stakeholders during both Sprint Reviews and Sprint	will review the product backlog (living artifact),	1	1	I			1	1	1
- 1		1	1	Demos. Emphasize the value of iterative feedback to	observe the product backlog review process	1	1	I			1	1	1
				guide development and ensure that user needs are	and will monitor future Sprint reviews.			l			1		1
- 1				consistently met.	and will monitor ratare sprint reviews.								
J				consistency met.	11/30/2023 - The vendor and BHA have a			l			1		1
J				Establish standardized communication protocols	product backlog review process in place. IV&V			l			1		1
				for both Sprint Reviews and Sprint Demos. Encourage									
				teams to deliver concise and informative progress	and will monitor future Sprint reviews. This was								
				reports, including achievements, challenges, and	changed from a Preliminary Concern to a								
				future plans. This will enhance stakeholder	Medium-priority Risk.								
				engagement and project transparency.									
					10/31/2023 - The vendor has confirmed that								
				4. Create a stakeholder register to identify all	they will provide demonstrations of new								
				stakeholders. List their identification, assessment,	functionality/features as part of Sprint Reviews								
				and classification. Review the register regularly to	going forward. In parallel, joint testing of								
	The Golden Record (GR) project continues to	Due to issues with the Golden Record (GR) solution, the	GR implementaion has been delayed several times. As a result,	1. Identify stakeholders (output is stakeholder	03/31/2024 - CAMHD and DDD Stakeholders	Release/Deployment	Issue	Medium	Closed	3/31/2024	7/10/2023	Gautam	
	be delayed.	project may experience delays and a shift in focus from critical	GR is impacting the INSPIRE release schedule. E.g., mid-sprint	register) and develop a RACI matrix for the project to	continued to meet in March 2024 to clarify open	Planning					1	Gulvady	
	,	functionality. The GR is a crucial element that affects several	deployment (MSD) has been postponed multiple times. BHA	ensure adequate communication and stakeholder	questions regarding future GR development and								
		user stories dependent on it. The deployment of the GR has	reviewing original requirements and evaluating if BHA needs to	participation.	potential 3rd-party tool integration. One GR								
		been postponed to 08/19/2023, resulting in the transfer of	revisit the design.		user story was implemented in R4.5, and no								
- 1		approximately 150 story points into R4.2 and subsequent	revisit the design.	Identify the objective of implementing GR	further GR development will be conducted.								
		releases. However, it is unclear which releases will include the		production data use, benefits, current gaps in design,									
		GR-related user stories		effort estimates, resource commitments, and impact	Thung closed.								
		GR-Telated user stories			I .								
					02/20/2024 CAMALD and DDD Stakeholders to	1	1		I				
				of having/not having GR.	02/29/2024 - CAMHD and DDD Stakeholders to								
- 1				of having/not having GR.	meet in March 2024 to clarify open questions,								
				of having/not having GR. 3. Prior to implementation of the GR, needed updates	meet in March 2024 to clarify open questions, e.g., when GR development would be								
				of having/not having GR. 3. Prior to implementation of the GR, needed updates to the consent form should be confirmed and	meet in March 2024 to clarify open questions, e.g., when GR development would be completed and questions around potential 3rd-								
				of having/not having GR. 3. Prior to implementation of the GR, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should	meet in March 2024 to clarify open questions, e.g., when GR development would be completed and questions around potential 3rd- party tool integration, to come to a common								
				of having/not having GR. 3. Prior to implementation of the GR, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should be confirmed, and all open defects should be	meet in March 2024 to clarify open questions, e.g., when GR development would be completed and questions around potential 3rd-party tool integration, to come to a common understanding about the scope and planned								
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Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience. Performance issues have been identified that have the potential to impact the system's functionality, user experience, and the overall reliability of the system. These performance issues with re-assigning opening the DDD – Contact Notes (Fiscal View – Cc CAMHD has not reported performance issues.) CAMHD has not reported performance issues.	g cases and 2023 for phase 3 releases (R3.x). ~800+ new User	performance test prior to R4.6 implementation on 5/30/24. The plan is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the performance test. 02/29/2024 - Per the IV&V recommendation about scheduling the next performance test, CAMHD and DDD will have discussions about the scope and schedule for the next performance test. 01/31/2024 - IV&V to discuss the criteria for selecting upcoming release(s) for performance testing (as part of planning performance test) with BHA so planning can commence. A new recommendation has been added. 12/31/2023 - IV&V to discuss performance test planning with BHA for upcoming release(s) with	Project Management	Issue	Medium	Open		8/18/2023	Gautam Gulvady	
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	calculator functionality/transactions and monitoring			1	1		l	1	1	1
		significant new features/functionality.	1	1	1		l	1		
	results over time.			1			1	1		
				1			1	1		
		11/30/2023 - IV&V has discussed the next steps		1			1	1		
		with BHA (see updated recommendation #1).		1			1	1		
				1			1	1		
		10/31/2023 - The IV&V review of the draft		1			1	1		
		vendor contract indicates that the vendor is		1	1			1		
		accountable for conducting load and		1			1	1		
		performance testing of INSPIRE. IV&V will		1			1	1		
		, ,								
34 Shortage of Behavioral Health Administration Key BHA project resources have reported constraints on how If BHA is unable to fully staff the project and their			Resource Management	Issue	Medium	Open	1	8/18/2023	Michael Fors	
(BHA) project resources could lead to much time they can devote to the project. The departure of resources continue to be constrained, the project	could team members' daily responsibilities to other staff.	reporting period.		1			1	1		
reduced productivity and project delays. the Child and Adolescent Mental Health Division (CAMHD) experience a reduction in productivity and project	delays.			1			1	1		
System Management Office Manager and CAMHD Inspire	2. BHA should work quickly to backfill vacated project	t 02/29/2024 - DDD plans to request one (1)		1			1	1		
Project Lead could further impact the project if DOH cannot	team member positions.	business analyst position to address resource		1			1	1		
acquire suitable resources. The lack of capacity of the DOH test		shortages.		1			1	1		
script developer has slowed DOH's automated test script	3. BHA should identify tasks and duties that they car			1			1	1		
development.	ask the SI to assume, as permitted by the contract,			1			1	1		
иечегорители.				1			1	1		
	which are presently being handled by BHA members			1			1	1		
		documented in APDU #6. This finding was		1			1	1		
	4. BHA should explore the use of contractors to fill	changed from a Risk to an Issue.		1	1		l	1		
	open project positions.			1	1		l	1		
		12/31/2023 - During the Steering committee	1	1	1		I	1	1	1
		meeting on 12/12/2023, DDD representative		1	1		l	1		
		communicated since the three positions were	1	1	1		I	1	1	1
		not included in the budget, DDD to submit a		1	1		l	1		
		variance for an IT position.	1	1	1		l	1	1	1
		1		1	1		l	1		
		11/30/2023 - DDD took proactive steps to		1	1		l	1		
		address the IT shortages by creating three	1	1	1		I	1	1	1
		position descriptions along with justifications.		1	1		l	1		
				1	1		l	1		
		However, the positions were not approved.	1	1	1		I	1	1	1
		DDD will continue to explore other options and		1	1		l	1		
		find a solution to address the IT shortages. The		1	1		l	1		
		Healthcare System Management Office (HSMO)	1	1	1		I	1	1	1
		Chief's position was cancelled after it was	1	1	1		l	1	1	1
		opened. A Band B System Architecture resource	1	1	1		I	1	1	1
		is now filling that role temporarily, in addition to	1	1	1		I	1	1	1
		executing his own duties. The reporting		1	1		l	1		
		hierarchy of resources that previously reported		1	1		l	1		
		to the HSMO Chief is also unclear.	1	1	1		I	1	1	1
		15 Tisking Chief is diso different.	1	1	1		l	1	1	1
		10/31/2023 - With the departure of the BHA		1	1		l	1		
		INSPIRE Child and Adolescent Mental Health		1	1		l	1		
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ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
35	to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	R3.33 work started, and the SI vendor was working with BHA on the Statement of Work (SOW). BHA made the decision not to implement R3.33 and moved on to the next big phase of work, starting with R4.1. Project team members will see some references to R3.31 and Raure DevOps, which are incorrect and should be updated to R4.1 or an appropriate future release. There is still cleanup happening for items that are in the parking lot, which may state R3.33 until those items are assigned to a release.	A cleaned-up Azure DevOps environment would enable the team and stakeholders to accurately track and report defects and user stories, e.g., "in number of post-production defects in Rm. to be implemented in Rx.y, monitor and measure the team's effectiveness (trending as improvements, e.g., fewer post-production bugs from previous releases), and to maintain tool's effectiveness in supporting project management needs.	1. DevOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environment should be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE project management and tracking needs. 2. Configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue types, custom fields, and other settings are aligned with the project's needs and industry best practices. 3. Optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they accurately reflect that status of work, and they are designed to facilitate efficient tracking and collaboration. This will help streamline and make it easier to find relevant information. 4. User Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using the tool effectively. Share best practices for issue creation, workflow management, and collaboration. 5. Establish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, adjust workflows as needed, and ensure that configurations remain aligned with evolving needs.	03/31/2024 - Standardizing (ongoing process) tags used in Azure DevOps and cleaning up the Azure DevOps environment is an ongoing process. E.g., some post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). IV&V will monitor the progress. 02/29/2024 - Standardizing (ongoing process) tags used in Azure DevOps environment are ongoing. E.g., post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). IV&V will monitor the progress. 01/31/2024 - RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. E.g., the four (4) RA 4 post-production bugs are tagged "Post Go-Live Bug". IV&V will monitor the progress. 12/31/2023 - RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. The tags will be used from RA 4 onwards. This should help optimize the workflow and make it more streamlined. IV&V will continue to monitor the usage of tags and the cleanup process. 11/30/2023 - RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. The tags will be used from RA 4 onwards. This should help optimize the workflow and make it more streamlined. IV&V will continue to monitor the usage of tags and the cleanup process.	Project Management	Preliminary	N/A	Open		8/2/2023	Gautam Gulvady	
36	Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns.	Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well.	Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well.	Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool, containing tasks for both 51 wendor and State, task dependencies, and resourcing. Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	03/31/2024 - The Data Sharing Agreement (DSA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DSA is executed. 02/29/2024 - The project currently utilizes a high-level Gantt chart, which shows planned release dates but does not provide visibility to task completion, tasks behind schedule, resource allocation, etc. The Data Sharing Agreement (DSA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DSA is executed. A schedule for the analytics project will be developed once the start date is known. IV&V recommends also developing a schedule for Phase 4. 01/31/2024 - Delays in executing the Data Sharing Agreement (DSA) contract between DDD and MQD. The Department. of Human Services (DHS) has delayed the commencement of the Analytics project. IV&V has yet to see a comprehensive project schedule for the Analytics module. The priority has changed from Medium to High. 12/31/2023 - IV&V reviewed the vendor's final proposal regarding an approach to maintaining a complete project schedule as requested by will provide a complete project schedule for the RFP. The vendor has communicated they will provide a complete project schedule for the	Project Management	Issue	Medium	Open		8/29/2023	Gautam Gulvady	

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	Due to on-going deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments.	Several post-production bugs have been encountered in the Phase 4 release, R4.4.	Regarding the bug, "Human Services Research Institute (HSRI) flow is failing in production" (bug# 34886 https://dev.aurc.com/DoHBHA/DOH8/2DBHA/8/20INSPIRE/_wor kitems/edit/34886), what is in development and deployed is vastly different from what was deployed to production. The root cause for these errors is currently being investigated. Repeatable documented release and deployment and resources experienced with deployments will help ensure that mistakes are minimized and that functionality is not mistakenly deprecated when deployments take place.	1. The Project should consider automating deployments for resource savings, increased efficiency, consistency, faster time to market, improved collaboration and reliability, scalability, version control integration, and rollback capability. 2. Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. 3. As appropriate, consult with RSM on best practices that BHA could employ to support deployment. 4. Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments. 5. Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities. 6. The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls. 7. IV&V recommends performing an RCA in	medium) have been fixed and tested (in the development and test environments) and will be deployed to production with R4.5. One (1) post-production bug is yet to be created in DevOps. IV&W will monitor the progress and quality of the R4.5 deployment after deployment on 2/29/2024. Three (3) of these are deployment-related, and two (2) of the deployment-related bugs were critical. IV&W will monitor the progress and quality of the R4.5 deployment once R4.5 is deployed in March	Release/Deployment Planning	Issue	Medium	Open		1/25/2024	Gautam Gulvady	
	Improvements to the testing process are needed to ensure comprehensive testing of new functionality prior to production deployment.	There is a limited understanding of the testing processes and the roles and responsibilities of those involved in the process. There is no formal process for the development, review, and approval of test scenarios, test cases, and test results to ensure adequate participation and approval from state staff.	When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested. As a result, time was expended by testing resources, testing was inadequate, and a user story may have been deemed to meet functionality when it did not.	1. Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing. 2. Review the overall testing process and implement any needed improvements identified.	O3/31/2024 - CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process. O2/29/2024 - CAMHD is developing a Stakeholder registry and RACI matrix to address adequate statewide participation in the testing process. O2/29/2024 - CAMHD is developing a Stakeholder registry and RACI matrix to address adequate statewide participation in the testing process. O1/31/2024 - When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested.	Test Practice Validation	Issue	Medium	Open		1/31/2024	Gautam Gulvady	

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44	About of second distance in the	County and the literature of t	A contract to the state of the	Consists dedicated and other library	03/31/3034 DUA+	Cariat Diagram	Diele	Mardina	0		1/20/2024	Contain	
41	Absence of separate dedicated product backlog review meetings can pose several	Currently, product backlog reviews are done during design meetings and/or weekly issues meetings. This can lead to, e.g.,	A product backlog review is an essential part of agile project management, particularly in Scrum. It's a collaborative meeting	Separate dedicated product backlog review meetings (during sprints) would allow clarifying any	03/31/2024 - BHA to schedule separate product backlog review meetings.	Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam Gulvady	
	challenges for a project team.	scattered focus, limited stakeholder engagement, difficulty in	where the Scrum team, including the Product Owner, Scrum	ambiguities or uncertainties, re-prioritization,	backlog review meetings.							Guivauy	
	chanenges for a project team.	managing complexity, and delayed decision making.	Master, and development team members, inspect and adapt the	estimation, and refinement of backlog items. This	02/29/2024 - Product backlog reviews are still								
			product backlog.	would allow the project team to avoid situations	done during design meetings and/or weekly								
				where decisions about including items mid-sprint	issues meetings. The project team								
			The product backlog review is an important Scrum ceremony	would have to be taken.	contemplated a mid-sprint deployment (MSD)								
			that helps keep the backlog relevant, up-to-date, and aligned		for three (3) items (AER, Maui Wildfire SMS, and								
			with the project's goals and priorities. Here's a summary of what	IVV recommends scheduling separate dedicated	ISP modifications) - AER was deployed on								
			typically happens during a product backlog review:	product backlog review meetings (during sprints)	2/29/2024, and the remaining two will be								
			L	where all relevant stakeholders are invited to review	deployed in R4.5. BHA to schedule separate								
			Inspecting Backlog Items: The team reviews the items on the product backlog. This involves discussing each item,	the product backlog and scheduled at the	dedicated product backlog meetings for scoping R4.6 to help avoid the need for including items								
			understanding its priority, value, and acceptance criteria.	appropriate time(s) such that there is sufficient time to plan the design, development, and	mid-sprint.								
			Ensuring Clarity: The team ensures that each backlog item is	implementation (DDI) of the next release(s).	mid-sprint.								
			clear and well-understood. Any ambiguities or uncertainties are	implementation (BBI) of the next release(3).	01/31/2024 - Currently, product backlog								
			clarified at this stage.		reviews are done during design meetings								
			3. Estimation: Estimation of backlog items may occur during the		and/or weekly issues meetings. The Product								
			review. The team may use techniques like story points or relative		backlog review is a more structured meeting								
			sizing to estimate the effort required for each item.		specifically dedicated to reviewing the entire								
			4. Re-prioritization: Based on new insights, changes in		backlog, making adjustments, and ensuring its								
			requirements, or stakeholder feedback, the team may need to re-		readiness for upcoming sprints. The product								
			prioritize items in the backlog.		backlog review is typically conducted as a								
			5. Removing or Adding Items: Items that are no longer relevant		separate meeting. The purpose of keeping it								
1			or necessary may be removed from the backlog. New items that		separate is to focus specifically on the backlog		1				I		
			emerge or are identified as important may be added.		items, their priorities, and any necessary								
			6. Refinement: Backlog refinement may also occur during the		adjustments to ensure alignment with the								
			review. This involves breaking down large items into smaller,		product vision and stakeholder needs. It								
			more manageable ones, or adding more detail to items as needed.		typically occurs periodically, e.g., once per								
			7. Collaboration: The review is a collaborative effort involving the		sprint or at regular intervals, to ensure the backlog remains up-to-date, prioritized, and								
			entire Scrum team. It's an opportunity for open discussion and		aligned with the project's goals.								
			sharing of ideas to ensure everyone is aligned on the goals and		angrica with the project 3 goals.								
			priorities.										
42	Effective governance and communication is	Lack of effective governance and communication among	Ineffective governance and communication among stakeholders	IVV recommends considering the following	03/31/2023 - Division heads from three (3)	Project Management	Issue	Medium	Onen		2/29/2024	Gautam	
42	lacking on the project.	stakeholders can have significant negative impacts on a project		recommendations to establish effective governance	divisions, the Developmental Disabilities	r roject wanagement	13300	iviculum	Орен		2/23/2024	Gulvady	
	identify of the project.	in several ways.	stakeholder disengagement, misunderstandings, conflict and	and communication among stakeholders:	Division (DDD), Child & Adolescent Mental							Culvady	
			tension, misalignment of objectives, increased risks, unclear	,	Health Division (CAMHD), and Alcohol & Drug								
			roles and responsibilities, and quality issues. An example on this	Create a Governance Structure: Implement a	Abuse Division (ADAD), met in March 2024 to								
			project is the development and implementation of Golden	governance structure that defines decision-making	discuss and resolve Golden Record-related								
			Record/Master Data Management (MDM).	processes, escalation procedures, and accountability	issues. DDD has added a Policy & Procedures-								
				mechanisms. Clarify how decisions will be made, who									
			The lack of effective governance and communication among	has authority, and how issues will be resolved.	Solution Project Steering Committee meetings.								
			stakeholders can result in project delays, budget overruns, and										
			decreased quality. It's essential for project managers and	Develop a Stakeholder Registry, RACI chart, and	02/29/2024 - Finding identified by IV&V.								
I			stakeholders to prioritize clear communication and establish	Stakeholder Engagement Plan: Identify key			1				I		
			robust governance structures to ensure project success.	stakeholders and develop a plan to engage them									
				throughout the project lifecycle. Tailor									
				communication strategies to address the needs and preferences of different stakeholders, ensuring their									
				active involvement and support.									
				active involvement and support.									
				Clearly define Roles and Responsibilities: clearly									
1				outlining the roles and responsibilities of each			1				I		
1				stakeholder involved in the project, would ensure			1				I		
I				that everyone understands their duties and how they			1				I		
				contribute to the project's success.			1				I		
1							1				I		
1				4. Encourage Open Communication and Feedback:			1				I		
				Foster a culture of open communication and			1				I		
				feedback where stakeholders feel comfortable			1				I		
I				sharing their thoughts, concerns, and suggestions.			1				I		
				Encourage constructive dialogue and actively seek									
				input to improve decision-making and problem-									
l				solving. Keep stakeholders informed about project									
1				progress, milestones, and key developments through									
1				regular updates and progress reports. Highlight achievements, challenges, and any changes to the			1				I		
1				demovements, chancinges, and any changes to the	l	l	I	ı	ı		1	1	
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