



Stage 1 Business Analysis

California Department of Technology, SIMM 19A.3 (Ver. 3.0.9, 02/01/2022)

1.1 General Information

1. Agency or State entity Name: **8570 - Food and Agriculture, Department of**

If Agency/State entity is not in the list, enter here with the [organization code](#).

[Click or tap here to enter text.](#)

2. Proposal Name and Acronym: **GWSS Trapping Application**

3. Proposal Description: (Provide a brief description of your proposal in 500 characters or less.)

CDFA is looking to replace the existing Glassy-Winged Sharpshooter (GWSS) Finder mobile trapping application and associated GWSS Trapping administrative application utilized by the Pierce's Disease Control Program (PDCP) for areawide trapping/data collection of the GWSS with applications on a unified platform. The GWSS applications lack the ability to incorporate crop layer and other critical data collected necessary for the rapid response to GWSS detections throughout California.

4. Proposed Project Execution Start Date: **8/15/2024**

5. S1BA Version Number: **Version 1**

1.2 Submittal Information

1. Contact Information

Contact Name: **Amar Hariharan**

Contact Email: **Amar.Hariharan@cdfa.ca.gov**

Contact Phone: **916-767-3232**

2. Submission Type: **Updated Submission (Pre-Approval)**

If Withdraw, select Reason: **[Choose an item.](#)**

If Other, specify reason here: [Click or tap here to enter text.](#)

Sections Changed, if this is a Submission Update: (List all sections changed.)

[Click or tap here to enter text.](#)

Summary of Changes: (Summarize updates made.)

[Click or tap here to enter text.](#)

3. Attach [Project Approval Executive Transmittal](#) to your email submission.

4. Attach [Stage 1 Project Reportability Assessment](#) to your email submission.

1.3 Business Sponsorship

1. Executive Champion (Sponsor)

Title: [Division Director](#)

Name: [Joe Damiano](#)

Business Program Area: [Pierce's Disease Control Program](#)

2. Business Owner

Title: [Senior Environmental Scientist \(Supervisory\)](#)

Name: [Stacie Oswalt](#)

Business Program Area: [Pierce's Disease Control Program](#)

3. Product Owner

Title: [Research Data Analyst II](#)

Name: [Mark Harrington](#)

Business Program Area: [Pierce's Disease Control Program](#)

1.4 Stakeholder Assessment

The Stakeholder Assessment is designed to give the project team an overview of communication channels that the state entity needs to manage throughout the project. More stakeholders may result in increased complexity to a project.

1. **Indicate which of the following are interested in this proposal and/or the outcome of the project. (Select 'Yes' or 'No' for each.)**

State Entity Only: [No](#)

Other Departments/State Entities: [No](#)

Public: No

Federal Entities: Yes

Governor's Office: No

Legislature: No

Media: No

Local Entities: No

Special Interest Groups: Yes

Other: No

2. Describe how each group marked 'Yes' will be involved in the planning process.

Federal Entity Stakeholder: United States Department of Agriculture (USDA)

The PDCP operates under a Federal Cooperative Agreement with the USDA. Survey data collected by the GWSS Trapping Application is shared with USDA as necessary to facilitate response treatments under the USDA's jurisdiction. USDA defines the data points necessary for collaboration on treatment response.

Special Interest Groups Stakeholder: Pierce's Disease & Glassy-winged Sharpshooter (PD/GWSS) Board and PD/GWSS Advisory Task Force.

The PDCP provides updates to the PD/GWSS Board and PD/GWSS Advisory Task Force at joint quarterly meetings regarding GWSS population trends and dynamics collected by the GWSS Trapping Application. The PD/GWSS Board and PD/GWSS Advisory Task Force contribute to the data points to be collected by the PDCP.

1.5 Business Program

1. Business Program Name: Pierce's Disease Control Program - Glassy-Winged Sharpshooter

2. Program Background and Context: (Provide a brief overview of the entity's business program(s) current operations.)

The California PDCP was established in May 2000, following the discovery in late 1999 of significant vineyard losses in southern California from Pierce's Disease (PD). The disease is not new to California, but it was now being spread by a new and aggressive insect vector, GWSS. California's entire grape and wine industry – recently estimated to contribute \$73 billion in economic activity and provide 422,000 jobs in California alone -- was now at risk. PD is considered one of the most devastating diseases of grapevines in the world. The bacterium that causes the disease, *Xylella fastidiosa*, kills grapevines within two to five years of infection. Currently, there is no cure for PD.

The State legislature enacted specific statutory provisions to address PD and GWSS. Assembly Bill (AB) 1232 was enacted in October 1999 and mandated creation of an advisory task force and appropriated funds for 3 years for PD research. A second bill, Senate Bill (SB) 671, was enacted in May 2000. SB 671 recognized the clear and present danger presented by PD and GWSS and mandated certain measures to control the disease. In response to the legislative recognition, facts, and circumstances that indicated the existence of an emergency, CDFA undertook immediate measures to mitigate and prevent damage from PD and GWSS and developed the PDCP. The Program has five major components:

Contain the Spread: Prevent the spread of GWSS to new areas of the state by regulating shipments of host plants and other host material and suppressing populations to prevent natural spread from monitoring GWSS with an insect trapping strategy and treatment.

Statewide Survey and Detection: Find new GWSS infestations quickly and confirm that non-infested areas remain free of infestation by conducting systematic trapping in non-infested at-risk areas.

Rapid Response: Respond quickly to detections of GWSS in new areas by intensively surveying the area and applying treatments if necessary.

Public Outreach: Raise awareness about PD and its vectors while responding to the concerns of growers and the public by conducting outreach and education activities.

Research: Develop long-term, sustainable solutions to PD and its vectors by sponsoring and facilitating research and development.

Through a collaboration of several agencies and cooperators, PDCP implements a statewide strategy to contain the spread by conducting a statewide survey and detection, rapid response, outreach, and research program. To accomplish the mission, PDCP utilizes trapping data to identify GWSS hotspots, develop and deploy treatment plans, and inform the public. Any delay in the collection and analysis of the trapping data increases the risks of the spread of PD.

3. How will this proposed project impact the product or services supported by the state entity?

This project will provide a solution which will provide existing services and enhance the tracking capabilities of the program field staff according to CDFA 454.1 PQM PDCP requirements.

1.6 Project Justification

1. Strategic Business Alignment

Enterprise Architect

Title: Chief Enterprise Architect

Name: Srinadhababu Sannepalli

Strategic Plan Last Updated? 12/7/2018

Strategic Business Goal: [Promote and Protect](#) – Promote and protect the diverse local and global marketability of the California agricultural branch which represents superior quality, value, and safety.

Alignment: [Replacing the current GWSS trapping application allows the PD program to prioritize and schedule inspections, provide reliable geographic information to staff for trapping efforts, and analyze and aggregate GWSS reporting data with more accuracy and efficiency.](#)

Strategic Business Goal: CDFA Technology Roadmap

Alignment: Page 18/19 of the CDFA TR

Mandate(s): [None](#)

Bill Number/Code, if applicable:

Add the Bill language that includes system-relevant requirements:

2. Business Driver(s)

Financial Benefit: [No](#)

Increased Revenue: [No](#)

Cost Savings: [No](#)

Cost Avoidance: [No](#)

Cost Recovery: [No](#)

Will the state incur a financial penalty or sanction if this proposal is not implemented? [No](#)

If the answer to the above question is “Yes,” please explain:

[Click or tap here to enter text.](#)

Improvement

Better Services to the People of California: [Yes](#)

Efficiencies to Program Operations: [Yes](#)

Improved Equity, Diversity, and/or Inclusivity: [No](#)

Improved Health and/or Human Safety: [No](#)

Improved Information Security: [Yes](#)

Improved Business Continuity: [No](#)

Improved Technology Recovery: No

Technology Refresh: No

Technology End of Life: No

1.7 Business Outcomes Desired

Executive Summary of the Business Problem or Opportunity:

PDCP works to stop the spread of GWSS. PDCP's operational approach relies on five major components: contain the spread, statewide survey and detection, rapid response, outreach, and research. Since the inception of PDCP in 2000, these components have proven to be an effective means for slowing the spread of GWSS and minimizing the statewide impact of PD. PDCP implements its statewide strategy through the collaboration of several agencies and cooperators. USDA, the California County Agricultural Commissioners, the University of California, the PD/GWSS Board, and the PD Advisory Task Force all contribute to the success of the program.

As part of Statewide Survey and Detection, yellow sticky traps are deployed on a quarter-mile grid system in citrus groves and adjacent vineyards throughout five counties. These traps are monitored biweekly by PDCP or county personnel. The PDCP currently utilizes the GWSS trapping application (GWSS Finder), an iOS application developed in 2015 by CDFA Office of Information Technology Services (OITS), to record the number of GWSS caught on each trap during servicing. PDCP utilizes the GWSS Finder trapping application for tracking the distribution of GWSS to mitigate PD in California. Utilization of these applications in separate instances requires PDCP staff to manually enter data from the GWSS Finder mobile application by PDCP staff. The manual data migration introduces data quality issues and causes delays in data validation & updates to the CDFA Area Wide Trapping database. Unifying the two applications would reduce time spent by field workers and office staff on data migration and validation.

Agricultural Technicians service pest detection traps between a biweekly and monthly schedule to record the number of GWSS found on each trap in the GWSS Finder Application. Once GWSS trapping data is manually transferred from the GWSS Finder application to the CDFA Area Wide Trapping database, authorized personnel are then able to identify GWSS hotspots over infested and non-infested areas. GWSS maps are then generated bi-weekly to determine populations of GWSS surveyed and exhibited on a CDFA public website [CDFA - Area Wide Trapping \(ca.gov\)](https://www.cdafa.ca.gov/Programs/Plant%20Health/Pages/GWSS-Finder.aspx) for review and treatment of GWSS hotspots. The outdated technology of the two separate and disparate applications results in frequent system failures. Field staff are currently experiencing significant delays in receiving updated trapping information due to recurring issues with system downtime. This negatively affects the integrity of quarantine boundaries and prevents effective, timely responses to infestations, including delays in validating areas previously serviced by PDCP field staff, which results in delays for reporting information to program stakeholders.

Objective ID: 1.1

Objective: Reduce time spent by PDCP field workers and office staff to migrate and validate data from the GWSS Finder mobile application to the CDFA Area Wide Trapping database. Six months after implementation, the need to manually upload data from the mobile application to the Trapping database will be minimized. This will cause a reduction in the average amount of hours spent by PDCP field workers and office staff to review, validate, and upload GWSS data.

Metric: Average hours per week spent on data collection, data entry, data review, and management of data records by PDCP field workers and office staff.

Baseline: Currently PDCP field workers and office staff spend on average six hours every week to manually review, validate, and upload data to a CDFA server.

Target Result: Reduce the amount of hours spent by PDCP field workers and office staff on data collection, data entry, data review, and management of data records by 50 percent to three hours per week by unifying the GWSS Finder application and Trapping database by January 2025.

Objective ID: 1.2

Objective:

Minimize delays in providing the public and field inspectors with updated trapping information by reducing system downtime. When the GWSS Finder mobile application and the [CDFA - Area Wide Trapping \(ca.gov\)](https://www.cdфа.ca.gov/area-wide-trapping) database experience downtimes, neither data nor maps can be viewed, which causes delays for field staff in responding to potential outbreaks. Once the GWSS Finder application and CDFA Area Wide Trapping database are unified, field staff working in various locations associated with GWSS will be able to access the GWSS system for mapping data of targeted areas for possible infestation and would be able to respond more quickly to reports of infestation through the GWSS Finder application. It is possible to reduce downtime by three hours per week. Unification of the GWSS Finder application and CDFA Area Wide Trapping database will be completed by January 2025.

Metric: Average hours of down time per week due to issues with the CDFA Area Wide Trapping database.

Baseline: PDCP field staff currently experience an average system downtime of three hours per week.

Target result: Six months after implementation, reduce the average amount of system downtime experienced by PDCP field staff by three hours per week by providing field inspectors with updated trapping information through unifying the GWSS Finder application and CDFA Area Wide Trapping database.

1.8 Project Management

1. Project Management Risk Score: [Click or tap here to enter text.](#)

(Attach a completed [Statewide Information Management Manual \(SIMM\) Section 45 Appendix A Project Management Risk Assessment Template](#) to the email submission.)

2. Project Approval Lifecycle Completion and Project Execution Capacity Assessment

Does the proposal development or project execution anticipate sharing resources (state staff, vendors, consultants, or financial) with other priorities within the Agency/state entity (projects, PALs, or programmatic/technology workload)?

Answer: [Yes](#)

Does the Agency/state entity anticipate this proposal will result in the creation of new business processes or changes to existing business processes?

Answer (No, New, Existing, or Both): [Existing Processes](#)

1.9 Initial Complexity Assessment

1. Business Complexity Score: [1.4](#)

(Attach a completed [SIMM Section 45 Appendix C](#) to the email submission.)

2. Noncompliance Issues: (Indicate if your current operations include noncompliance issues and provide a narrative explaining how the business process is noncompliant.)

Programmatic regulations: [No](#)

HIPAA/CIIS/FTI/PII/PCI: [No](#)

Security: [No](#)

ADA: [No](#)

Other: [No](#)

Not Applicable: [Yes](#)

Noncompliance Description:

[Click or tap here to enter text.](#)

3. Additional Assessment Criteria

If there is an existing Privacy Threshold Assessment/Privacy Information Assessment, include it as an attachment to your email submission.

How many locations and total users is the project anticipated to affect?

Number of locations: [5 counties](#)

Estimated Number of Transactions/Business Events (per cycle): PDCP estimates 28,000 transactions per month from March through October and 20,000 transactions per month from November through February.

Approximate number of internal end-users: The number of internal end-users is twenty.

Approximate number of external end-users: The number of external end-users is ten.

1.10 Funding

Planning

1. Does the Agency/state entity anticipate requesting additional resources through a budget action to **complete planning** through the project approval lifecycle framework? No

If Yes, when will a budget action be submitted to your Agency/DOF for planning dollars?

[Click or tap to enter a date.](#)

2. Please provide the Funding Source(s) and dates funds for planning will be made available:

[Federal funds via a Cooperative Agreement made available on October 1, 2024.](#)

Project Implementation Funding

1. Has the funding source(s) been identified for **project implementation**? Yes

If known, please provide the Funding Source(s) and dates funds for implementation will be made available:

[Federal funds via a Cooperative Agreement made available on October 1, 2024. There will not be a 25/26 BCP for additional funding for project planning or/and implementation phases.](#)

Will a budget action be submitted to your Agency/DOF? No

If "Yes" is selected, specify when this BCP will be submitted: [Click or tap here to enter text.](#)

2. Please provide a rough order of magnitude (ROM) estimate as to the total cost of the project: Less than \$10 Million

End of agency/state entity document.

Please ensure ADA compliance before submitting this document to CDT.

When ready, submit Stage 1 and all attachments in an email to ProjectOversight@state.ca.gov.

Department of Technology Use Only

Original "New Submission" Date: [7/25/2024](#)

Form Received Date: [10/25/2024](#)

Form Accepted Date: [10/25/2024](#)

Form Status: [Approved](#)

Form Status Date: [03/05/2025](#)

Form Disposition: [Completed](#)

If Other, specify: [Click or tap here to enter text.](#)

Form Disposition Date: [03/05/2025](#)

Department of Technology Project Number (0000-000): [8570-097](#)