

# WILDLAND FIRE DECISION SUPPORT SYSTEM (WFDSS) – NEXT GENERATION



*Project Status  
Update  
May 2020*



# CURRENT ACTIVITIES

- FAM-IM has decided to pursue long term application hosting with DOI-OWF. DOI-OWF and WFIT are collaborating to establish a new Enterprise Cloud Hosting solution that will be utilized by several interagency fire applications, including IRWIN, WFDSS NextGen, IFTDSS and FMSF. The goal is to have this contract completed in Fall 2020.
- A temporary hosting environment for WFDSS NextGen has been established and financed through DOI-OWF until the long term solution 'Enterprise Cloud Hosting' is contracted and provisioned. The development team is reviewing and preparing this environment for development work.
- The Product Owners continue to work with the Business Analyst and UX/UI Designer gathering business requirements and learning about the current system. With the impact of Covid-19, meetings are occurring every morning M-Th at 8am mountain.
- DOI – OWF still actively recruiting for a long term detailer into the DOI Product Owner vacancy.
- [User Groups](#) have been actively participating in review of wireframe designs and discussion with specific business questions.



# REQUIREMENTS ACTIVITIES

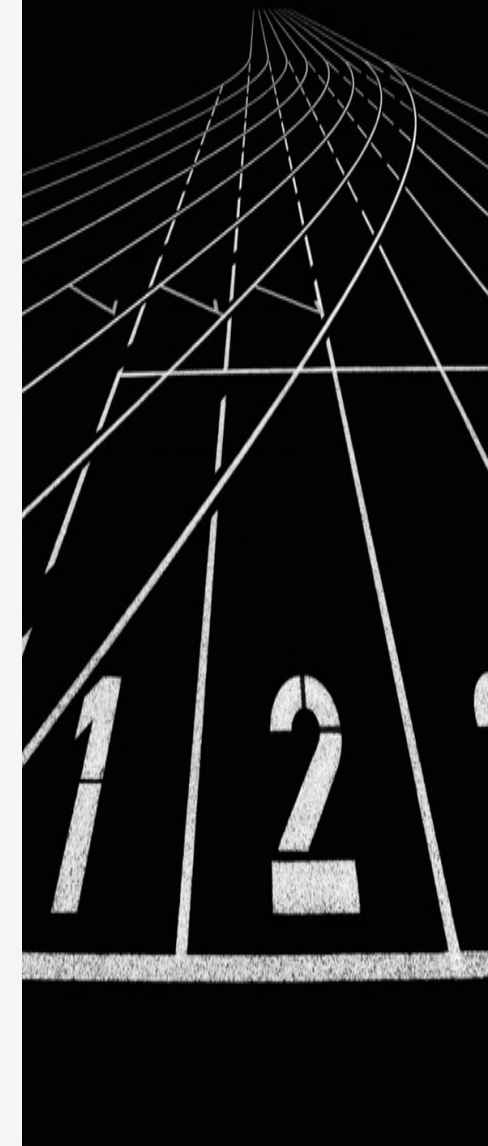
- Requirements gathering sessions are being conducted Monday through Thursday starting at 8am MST.
- Each day has a different topic to cover.
- A calendar has been established to outline the topics in advance. To the right are some recent topics from that calendar.
- Mondays are being reserved for data/ GIS specific conversations.
- The topics can shift if the team agrees.

Topic	Date	Notes
Map Requirements	May 26 & 27	Discussed what things need to be part of the map
Documentation, Training and Transition to NextGen	May 28	Discussed the timing and higher level details of our transition from current WFDSS to WFDSS NextGen
GIS/Data - Legacy Data	June 1	Continue peeling off layers of legacy data requirements. Getting tasks solidified will allow EAS to start the legacy data migration early enough to be successful prior to production launch.
Wireframes w/Kelsey (RR)	June 2	Considering the heavy changes coming for Relative Risk requirements, what should the UI look like and the User Experience (UX) be? Look at existing wireframes for RR and finalize any changes.
Wireframes w/Kelsey (RR)	June 3	Continued from previous day
Reporting	June 4	Discuss the difference between searching and reporting and look at examples on other websites. Start to define the reporting needs (e.g., exporting results, saving reports, etc).
GIS/Data - TBD	June 8	
TBD	June 9	

# RISKS AND CHALLENGES

*Most relevant risks and challenges.*

Title	Description	Rating	Mitigation Plan
<b>Provisioning a Hosting Environment</b>	WFDSS NextGen has exceeded the time available to obtain a hosting environment. The previously identified Azure hosting environment being provided by Forest Service CIO was not meeting the anticipated production timeline already extended to November 2021. A new long term solution has been identified, an Enterprise Cloud Hosting environment being stood up through DOI-OWF. A temporary development environment has been set up through DOI-OWF while the contracting actions on the long term solution are being worked.	HIGH	The production roll out timeline has been pushed from April 2021 to November 2021. This will increase the project costs and O&M costs for the current WFDSS application (~\$1.5M). A new project timeline has been created and included below. The team is still determining if the project timeline needs to shift further as this new Enterprise Cloud Hosting solution is reviewed and provisioned.
<b>Active DOI Participation</b>	The WFDSS next gen project is currently lacking a full time dedicated representative from DOI that participates in the project on a daily basis. This position would be the DOI Product Owner dedicated to the project 100% for the next 2 years.	HIGH	Previously this position came without funding. OWF has identified funds for this position and are working to reallocate for this position. Several candidates have been identified.
<b>COVID-19 Mitigations</b>	In the wake of COVID-19 mitigations, there is concern for the availability of project team members and impact it could have on the momentum of the project.	MED	The team is adjusting the daily schedule to allow team members to maintain connection on the project and tend to other activities as a result of COVID-19. The team will evaluate progress and impacts on a weekly basis.
<b>Coordination with FAM Auth/NAP</b>	FAM-IM determined WFDSS NextGen will utilize the user authentication through the NAP application as a go between to FAM Auth. We are currently waiting on contracting to be established before we engage the two development teams.	MED	Working on other priorities while we wait for the contracting action to complete.
<b>Staffing Concerns</b>	One of the main product owners, Tonja Opperman, has taken a new position elsewhere in the Forest Service.	LOW	There are negotiations to complete a work order for some of her time allowing some participation on the project. Brianna Schueller (former product owner for IFTDSS) has joined the product owners to help fill in behind Tonja, as well as a new detailer starting this month.



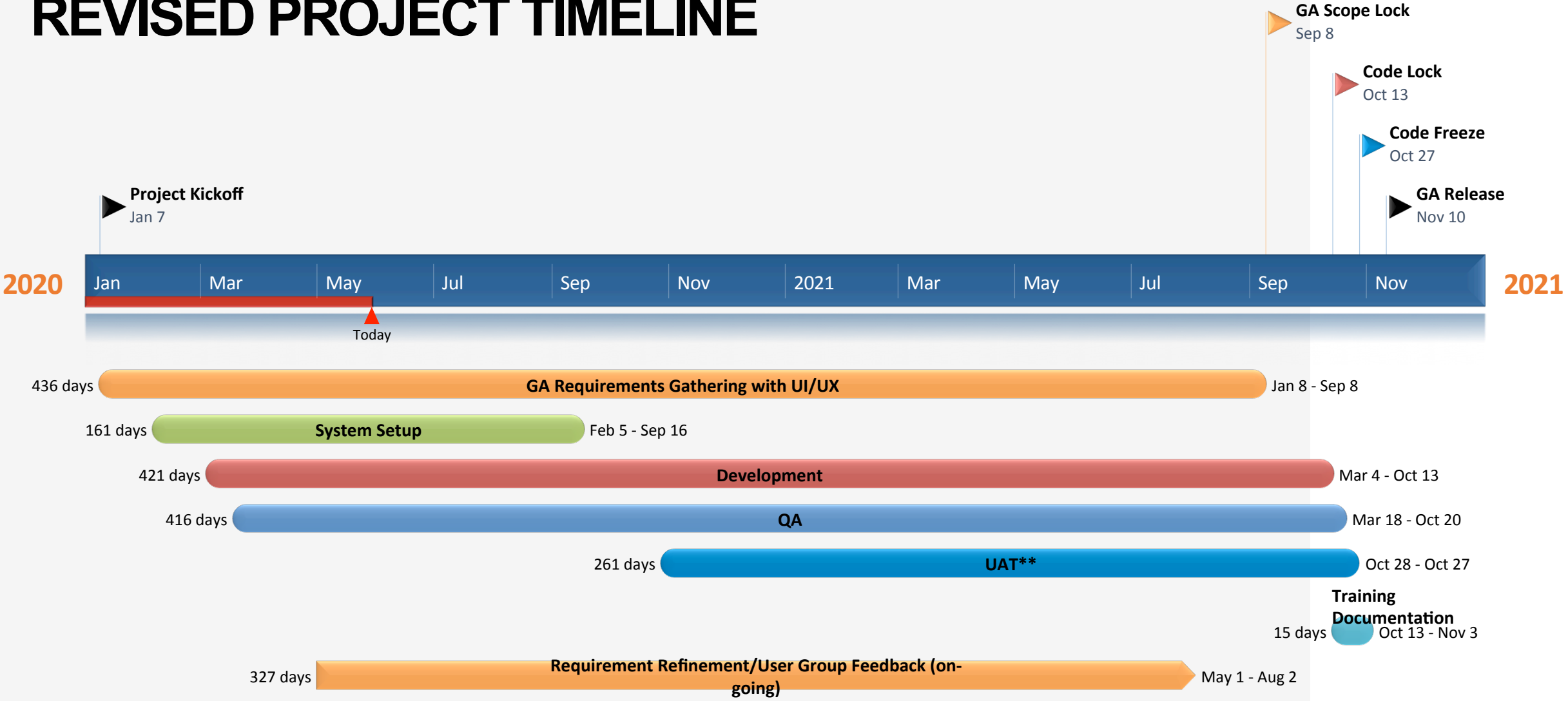
# PROJECT BUDGET



Tasks	Estimated Hours	Estimated Costs	Actual Costs	Remaining Balance
Architecture and Planning	560	\$63,560	\$33,416	\$30,144
System Setup	300	\$39,040	\$161,511	(\$122,471)
GIS Migration	180	\$16,500	\$16,708	(\$208)
RDB Migration	400	\$43,280	\$54,301	(\$11,021)
UI Implementation	6200	\$657,120	\$98,951	\$558,169
System Interfaces	1980	\$201,740	\$122,525	\$79,215
Utilities	2160	\$220,080	\$16,708	\$203,372
Rollout and Documentation	1680	\$168,560	\$0	\$168,560
Section 508 Compliance Testing	480	\$40,800	\$0	\$40,800
Management and Administrative Activities	1350	\$156,150	\$140,301	\$15,849
Management Reserve	N/A	\$160,683	\$0	\$160,683
<b>Total Estimated Costs</b>	<b>15,290</b>	<b>\$1,767,513</b>	<b>\$644,421</b>	<b>\$1,123,092</b>

*\*The overage for System Setup is due to delays in selecting the technologies, unclear direction on how to obtain a hosting environment and delay in obtaining a subscription for Azure Cloud Environment.*

# REVISED PROJECT TIMELINE



# PROJECT TIMELINE DEFINITIONS

Milestone	Definition
System Setup	Setting up the technical aspects of the project
Requirements Gathering with UI/UX	Discussing requirement needs with stakeholders
Development	Development of the stories
QA	Testing the code in the test environment
UAT**	Incorporating user feedback and getting sign-off ** this start date is contingent on a move to Azure and getting a UAT environment available there.
GA Scope Lock	No additional scope added to the backlog for GA release
Code Lock	No new stories deployed, only critical fixes
Training Documentation	Creating Train the Trainer documentation
Code Freeze	Pencils down, don't touch the code
GA Release	Code is in the production environment available to all users



# PROJECT SCOPE

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- Modernized technology and workflows to support efficient incident decision publication.
- Promote Cloud adoption
- Agile software development method
- Supports the goals and objectives of the federal fire policy and continues to support Public Law 116-9 (Dingell Act), Section 1114(e)(1) as appropriate.
- Major enhancements and new functionality are out of scope for this initial phase of the project.



# PROJECT TEAM

**Executive Sponsor:** U.S Forest Service Director of Fire and Aviation (FAM) and Department of Interior Director of Office of Wildland Fire (OWF) - Provide funding for the project and facilitate interagency communications.

**Owners:** System Owners and Application Owners with Forest Service FAM and Department of Interior OWF - Provide direction regarding business strategy and overall project vision and provide guidance on high-level business requirements.

**Business Lead:** For the purpose of this project, we are delegating the responsibilities and tasks to the Product Owner position to align with the Agile Software Development method being used for this application.

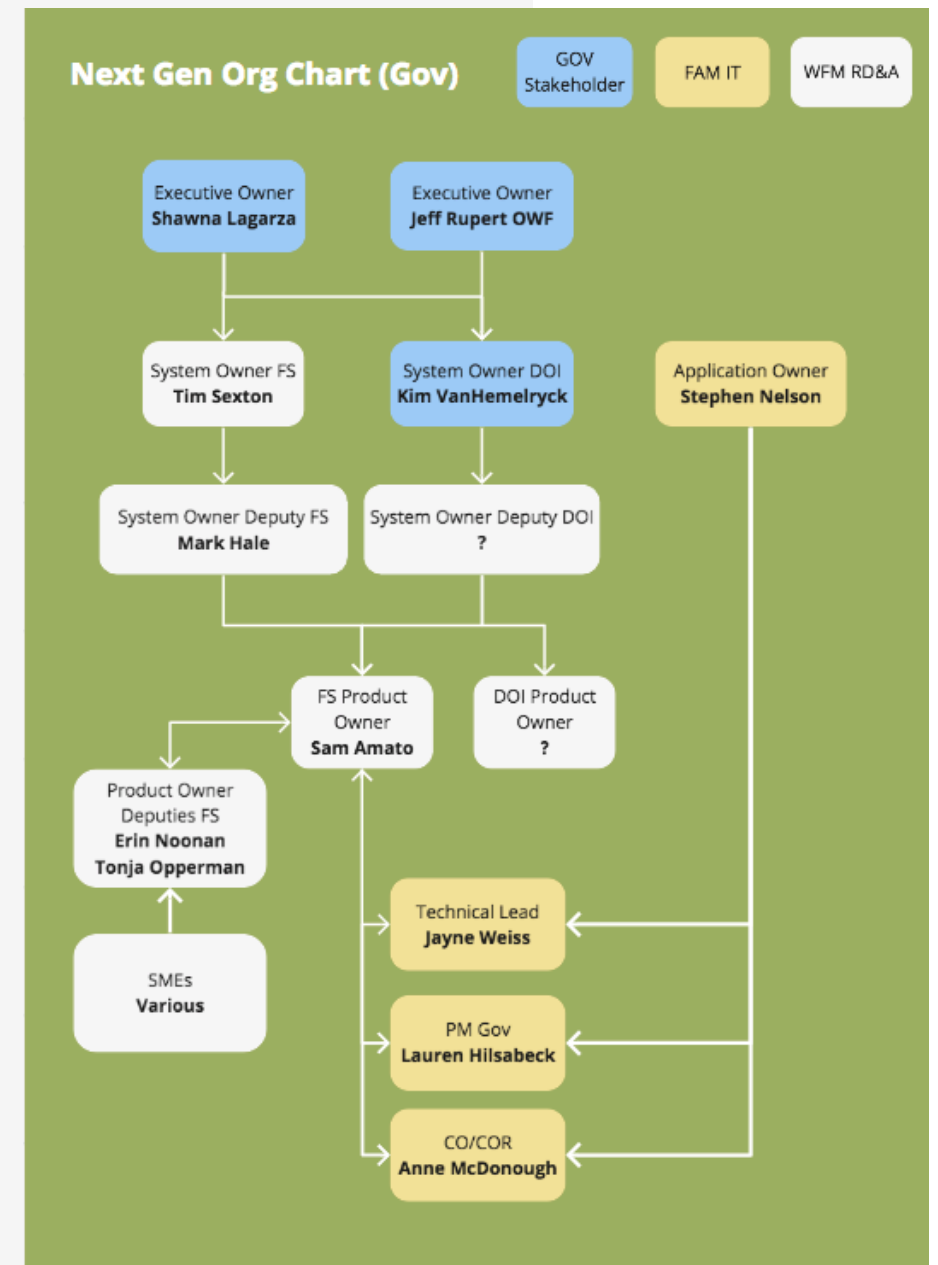
**Product Owners:** Responsible for providing daily oversight, guidance, priorities and direction of WFDSS next gen development, deployment, and operations and maintenance.

**Project Manager:** Forest Service Fire and Aviation Management (FAM) – responsible for all the daily success of the project; maintains clear communication with all members of the project team.

**Subject Matter Experts:** It will be necessary to involve subject matter experts in the requirements gathering, evaluation and testing of WFDSS application and provide additional users' perspective. At a minimum Subject Matter Experts will be required to represent their respective agencies in daily fire management activities, communicate relevant business and issues and provide input on specific areas of expertise within key incident business areas.

**Development Team:** USDA – OCIO Enterprise Architecture Service (EAS) - Provide key positions to support the application development of the WFDSS Next Gen project. Key positions include: Project Manager, Scrum master; Business Analyst; UX/UI Designer; Lead Developer; Architect; GIS Developer.

*\*More detailed information about each of these project team members can be located in the Project Charter.*



# FOR ADDITIONAL INFORMATION OR QUESTIONS ON ANY OF THE CONTENT

Lauren Hilsabeck –  402-875-2411

Project Manager  [Lauren.Hilsabeck@usda.gov](mailto:Lauren.Hilsabeck@usda.gov)