ADOA-ASET

Project Investment Justification

Version 01.01

A Statewide Standard Document for Information Technology Projects

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Project Title:

Arizona Wildfire Risk Assessment Portal (Arizona WRAP)

Agency Name:	**Arizona State Forestry Division**
Date:	**2/24/2015**
Agency Contact Name:	**Jerry Payne**
Agency Contact Phone:	
Agency Contact Email:	

Hover for Instructions

I. Management Summary*

The Arizona State Forestry Division (AZSF) provides for the prevention and suppression of wildland fires on 22 million acres of state and private land located outside of incorporated municipalities. The Agency provides services for fire prevention, urban and community forestry, forest stewardship, forest health, as well as utilization and marketing. The AZSF works to ensure information pertaining to wildland fire risk is readily available to property owners, local, state, and federal agencies, and other stakeholders. The proposed project will develop an Arizona Wildfire Risk Assessment Portal (Arizona WRAP) application that will provide interactive mapping and report capabilities of Arizona wildfire risk data to support general fire planning requirements.

II. Project Investment Justification (PIJ) Type*

☐ **Yes** ☒ **No** Is this document being provided for a Pre-PIJ / Assessment phase?

If Yes,

Identify any cost to be incurred during the Assessment phase.	$
Based on research done to date, provide a high-level estimate or range of development costs anticipated for the full PIJ.	$

Explain:
Click here to enter text.

☐ **Yes** ☒ **No** Will a Request for Proposal (RFP) be issued as part of the Pre-PIJ or PIJ?

III. Business Case

A. Business Problem*

The West Wide Wildfire Risk Assessment (WWRA), which provides generalized fuels datasets and risk assessments that are available for 17 Western states including Arizona, was completed in 2013. The information is not up to date and is not specific enough for planning efforts by state agencies. The information is not available online, inhibiting the AZSF from providing the data to the public, state agencies, and other stakeholders in a timely and efficient manner, which delays the ability for public and state planners to manage wildfire risk.

B. Proposed Business Solution*

The Arizona State Forestry Division (AZSF) is proposing to procure Professional and Outside Services to implement a web based application which will make the Arizona information within the WWRA available to the public and state planners, along with locally available enhanced risk data.

The Arizona WRAP application will provide access to the Arizona portion of the WWRA information using interactive web mapping and report generation capabilities to support general fire planning requirements. The public and professional users will be able to access the site to view wildfire risk statistics for any part of the State of Arizona, as well as up to date information on existing fires occurring throughout the State.

Similar applications have been implemented in Texas and Colorado using the same base platform, and incorporating the same WWRA data for their respective states. The existing framework of the other states will help reduce development time, and allow for easier migration of the data into the new application.

In order to ensure the most up to date data will be used, a gap analysis will be performed where the latest local data is available compared to what the WWRA provides. The vendor will provide a template and tools which will allow AZSF to continually update and manage the wildfire risk data.

C. Quantified Benefits*

X	Service enhancement
	Increased revenue
	Cost reduction
	Problem avoidance
X	Risk avoidance

Explain:

Service Enhancement – The completed application will allow AZSF to make wildfire data readily available to the public, individual state agencies, local governments, and other stakeholders in a timely and efficient manner.
Risk avoidance – By providing the data from the WWRA and local entities on an easy to use web application, public and state planners will be able to review areas of high risk and work to mitigate the potential for wildfires.

IV. Technology Approach

A. Proposed Technology Solution*

The proposed technology solution will utilize ESRI ArcGIS Server 10+, ArcSDE 10+, and Microsoft SQL Server to house GIS data and allow for future system updates for geoprocessing and map generation. Users will have the ability to locate wildfire risk assessed areas by browsing the map, entering in specific locations or addresses.

The new application will use the ArcGIS API for Flex, which is used to build dynamic rich internet applications on top of ArcGIS Server. Additionally it will be designed to be responsive, so that access to the information will be available on a standard computer or a mobile device.

The website and application will utilize the design approach and capabilities of the Texas and Colorado Portals, and will be configured with the Arizona wildfire assessment data.

The vendor will establish a domain for housing and deploying the final application which will ultimately be transferred to the AZSF upon completion of the project.

B.   *Technology Environment*

AZSF currently utilizes an MS SQL server database for tracking and maintaining fiscal items. The database utilizes an ASP.NET front end graphical user interface which is attached to the MS SQL database hosted by the State Data Center.

The proposed system also utilizes MS SQL server, and the AZSF is familiar with the ArcGIS technology being used for the application. The new application will be hosted and maintained by the vendor for one year, ensuring it meets the requirements and desired functionality of AZSF.

After that point, AZSF will have the option to take over ongoing maintenance of the application, and choose the continued method of hosting. In order to ensure a smooth transition process from the vendor to AZSF, the vendor will provide processes and documentation to transition from the vendor hosted site to the hosting option chosen by AZSF.

C.   *Selection Process*

AZSF will provide a Statement of Work (SOW) and utilize vendor services available through existing State contract to acquire contracted resources to develop and implement the Arizona WRAP application. Responses will be reviewed, and a vendor will be selected to provide the services required to complete the new Web application on a deliverables based approach.

The selected vendor must have extensive experience in taking WWRA data and developing similar web portal applications based on the platform being used by other states.

V.   Project Approach

A.   *Project Schedule**

Project Start Date: 2/27/2015   **Project End Date**: 6/30/2015

B.   *Project Milestones*

Major Milestones	Start Date	Finish Date
System Architecture Requirements and Design	2/27/2015	3/24/2015
Application Requirements and Design	2/27/2015	4/3/2015
Development and Testing	3/20/2015	6/5/2015
Dataset Creation and Compilation	3/20/2015	5/1/2015
Application Deployment	6/5/2015	6/30/2015

VI.   Roles and Responsibilities

A. Project Roles and Responsibilities

The AZSF will manage the project based upon the SOW. The vendor will design the system based upon AZSF requirements, and develop, test and host the application for the first year. The vendor will complete a gap analysis, prepare and migrate the WWRA data to the new tool, and provide training and documentation to AZSF.

B. Project Manager Certification

	Project Management Professional (PMP) Certified
	State of Arizona Certified
X	Project Management Certification not required

C. Full-Time Employee (FTE) Project Hours

Total Full-Time Employee Hours	450
Total Full-Time Employee Cost	$

VII.   Risk Matrix, Areas of Impact, Itemized List, PIJ Financials

VIII. Project Approvals

A. Agency CIO Review*

Key Management Information	Yes	No
1. Is this project for a mission-critical application system?		X
2. Is this project referenced in your agency's Strategic IT Plan?		X
3. Is this project in compliance with all agency and State standards and policies for network, security, platform, software/application, and/or data/information as defined in http://aset.azdoa.gov/security/policies-standards-and-procedures, and applicable to this project? If **NO**, explain in detail in the "XI. Additional Information" section below.	X	
4. Will this project transmit, store, or process sensitive, confidential or Personally Identifiable Information (PII) data? If **YES,** in the "XI. Additional Information" section below, describe what security controls are being put in place to protect the data.		X
5. Is this project in compliance with the Arizona Revised Statutes (A.R.S.) and GRRC rules?	X	
6. Is this project in compliance with the statewide policy regarding the accessibility to equipment and information technology for citizens with disabilities?	X	

B. Project Values*

The following table should be populated with summary information from other sections of the PIJ.

Description	Section	Number or Cost
Assessment Cost (if applicable for Pre-PIJ)	II. PIJ Type - Pre-PIJ Assessment Cost	$
Total Development Cost	VII. PIJ Financials tab	$242,000
Total Project Cost	VII. PIJ Financials tab	$330,000
FTE Hours	VI. Roles and Responsibilities	450

C. Agency Approvals*

Contact	Printed Name	Signature	Email and Phone
Project Manager:	David Geyer		
Agency Information Security Officer:	Glen Buettner		
Agency CIO:	James Anderson		
Project Sponsor:	Jerry Payne		
Agency Director:	Jeff Whitney		

IX.   Optional Attachments

A.   *Vendor Quotes*

X.   Glossary

XI.   Additional Information

Links:

[ADOA-ASET Website](#)

[ADOA-ASET Project Investment Justification Information Templates and Contacts](#)

Email Addresses:

[Strategic Oversight](#)

[ADOA-ASET_Webmaster@azdoa.gov](#)