Arizona's On-line Environmental Review – an Internet Data Dissemination Tool

### Sabra Schwartz

Heritage Data Management System, Program Supervisor



### AGFD's Environmental Review Process

- Provides preliminary data and recommendations for all land and water projects
- USFWS refers others to AGFD
- Minimum of Special Status Species list in initial response
- Special Status Species list includes USFS, BLM, and ESA (including Critical Habitats) as well as state lists (NPL, WSCA)
- General wildlife and habitat potential impacts are addressed via project type recommendations and/or further requested review and evaluation
- Formal EA, EIS, BE, BA, or other documentation are later submitted for further review and evaluation
- Development of project specific mitigation measures are coordinated through further review and evaluation

### Need for something better

- Each project touched by at least 5 people including Project Evaluation Program, Regional Habitat Program, and HDMS staff
- Often requests don't include project type
- Guarantee 30 day turn-around (usually about 2 weeks) – needed to improve cycle time and customer service
- Response sent for every project (about 2000 annually)
- Needed reduction of staff time spent on no-impact projects



### Data Model



# ER Layer is comprised of several data sources

Listed and Candidate Species (ESA)

![](_page_5_Figure_1.jpeg)

State Listed Species

### Basic Step for Using the ER Tool

### ➢ Log into web site

- Select Project type relates to CWCS threat matrix
- 😼 Locate Project Area
- >> Draw Project
- ➢ Results − receive receipt

![](_page_7_Picture_0.jpeg)

« 🔁 😼 🗽 🕖 8:201

Internet

- 5

💌 🔁 Go 🛛 Link

### **AZ Department Game & Fish HGIS Sign In**

#### TERMS OF USE

By using this website, you acknowledge that you have read and agree to these terms. Department staff may revise these terms periodically. If you continue to use our website after we post changes to these terms, it will mean that you accept such changes. If at any time you do not wish to accept the Terms, you may choose not use the website.

1. This Environmental Review and project planning website was developed and intended for the purpose of screening projects for potential impacts on resources of special concern. By indicating your agreement to the terms of use for this website, you warrant that you will not use this web site for any other purpose.

 Unauthorized attempts to upload information or change information on this web site are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
 The Department reserves the right at any time, without notice, to enhance, modify, alter, or suspend the web site and to terminate or restrict your access to the web site.

4. This Environmental Review is based on the project study area that was entered. The review must be redone if the project study area, location, or the type of project changes. If additional information becomes available, this review may need to be reconsidered.

5. A signed and initialed copy of the Review Receipt indicates the receipt has been read and all terms therein agreed to by the signer of the Review Receipt.

#### SECURITY

The Environmental Review and project planning web application operates on a complex State computer system. This system is monitored to ensure proper operation, to verify the functioning of applicable security features, and for other like purposes. Anyone using this system expressly consents to such monitoring and is advised that if such monitoring reveals possible evidence of criminal activity, system personnel may provide the evidence of such monitoring to law enforcement officials. Unauthorized attempts to upload or change information; to defeat or circumvent security measures; or to utilize this system for other than its intended purposes are prohibited.

This website maintains a record of each environmental review search result as well as all contact information. This information is maintained for internal tracking purposes. Information collected in this application will not be shared outside of the purposes of the Department.

If the Review Receipt and supporting material are not mailed to the Department or other appropriate agencies within six (6) months of the Project Review Receipt date, the receipt is considered to be null and void, and a new review must be initiated.

I Agree

I Disagree

YOU MUST SELECT **"I AGREE"** IN ORDER TO CONTINUE THE PROJECT PLANNING AND ENVIRONMENTAL REVIEW PROCESS. SELECTION OF **"I DISAGREE"** WILL RETURN YOU TO THE HOME PAGE.

2	🚰 Login Page - Microsoft Internet Explorer provided by Arizona Game & Fish Department			_
Eile	<sup>le</sup> File Edit View Favorites Tools Help		i	
	🖕 🗢 Back 🔹 🔿 🖉 😰 🚰 🔞 Search 💿 Favorites 🛞 Media 🧭 🖏 - 🎒 🖬 🗐 🥑 Failed to retrieve buttons from MyWebSearch.	8 »	ţ,	
L	Address 🙆 http://qaweb.esri.com/hgis%2Der/Login.aspx 🗾 🔗 Go	Links »		
	😳 Search 🗸 🕜 WeatherBug Companion 77*			
	Environmental Review	×		
	New to Environmental Review? Using the Environmental Review Tool, a project planner max:			
	<ul> <li>1. Select his/her Project Type.</li> <li>2. Locate and Draw a project on an interactive map.</li> <li>3. Submit project information into the AZHGIS Environmental Review System.</li> <li>4. Perform an analysis and generate a receipt.</li> <li>5. Print a receipt.</li> <li>6. Follow instructions on the receipt to pursue project clearance with state agencies.</li> </ul>			
	For any questions regarding technical aspects of this site, please contact azhgis@state.az.us Close Windo			
De	c 😂	1.		

#### **Environmental Review**

Help

Select "Add New Project" to begin defining a new environmental review project for planning and review.

Please click on a Project Name to view the project receipt. If you have trouble viewing the receipt, you should make sure that Adobe Acrobat Reader is installed on your computer. You can download and install this reader from the Adobe Acrobat website.

\*Please Note: Projects cannot be deleted. If you have accidentally created a duplicate project, please e-mail PEP@azgfd.gov with the project number, including an explanation for removal of the project (e.g. duplicate, error, change in project, etc).

ID Number	Name	Submit Date	Status
20060710000651	test	7/10/2006 1:16:06 PM	Saved
20060710000652	last test	7/10/2006 1:59:15 PM	Received
20060713000697	swesa test	7/13/2006 2:34:56 PM	Saved

🙆 Done

🥂 Start 🖉 🏉 💕 😂 📴 🔣 🖉 👿 🙆 🚄 🍭 🏙 📀

Large and/or Multiple Part Projects

C:\Documents and S... C:\Documents and S...

🗑 screenshots\_az.doc ... 🖉 http://www.azgfd.g... 🕼 http://www.azgfd.... 😵 👷 📎 💯 8:23 P

**Update Profile** 

Add New Project

**Close Window** 

Logout

🙆 Internet

🚈 Environment	ital Review - Microsoft Internet Explorer provided by Arizona Game & Fish Department		
File Edit View	ew Favorites Tools Help		
🕁 Back 👻 🔿	🕞 🙆 🚮 🛛 🥘 Search 🛛 📾 Favorites 🖓 Media 🧭 🗟 🚽 🎒 🗐 🗐 🥑 🛛 Failed to retrieve buttons from MyWebSearch. 🛛 Ret	stry	
Address 🙆 http	p://qaweb.esri.com/hgis%2Der/mainViewer.aspx		🔹 🤗 Go Lir
💿 Search 🕞	🔹 🔄 Google 👻 Yahoo! 🔹 Ask Jeeves LookSmart 🏒 Highlight 💮 WeatherBug Companion 87*		
🚫 Envi	ironmental Review		
Start Over			
1 Project Type	Select Primary Category: Which of these best describes your project?		
2 Project Area	Agricultural Operations Communication Development Outside Municipalities Development Within Municipalities		
3 Project Placement	Energy Storage/Production/Transfer Forest, Woodland, Vegetation Management Habitat Conservation and Restoration		
4 Project Summary	Hazardous Waste Cleanup, site remediation, and reclamation Law Enforcement Activities Associated with the Border Military Activities Mining		
5 Project Results	Pest Control Recreation Areas Transportation & Infrastructure Waste Transfer, Treatment, and Disposal		
	Water Use, Transfer, and Channel Activities		
	(Next) My Projects Update Profile	Logout	Close Window
ど Done			🥑 Internet

🕘 Environmen	al Review - Microsoft Internet Explorer provided by Arizona Game & Fish Department			_ 8
File Edit Vie	v Favorites Tools Help			-
🗢 Back 🔹 🔿	- 🥝 👔 🚮 🛛 🥘 Search 🛛 🙀 Favorites 🖓 Media 🧭 🗟 - 🎒 🛒 🗐 🥑 🛛 Failed to retrieve buttons from MyWebSearch. 🛛 Re	try		Ś
Address 🙆 http	://qaweb.esri.com/hgis%2Der/mainViewer.aspx	1	• @60	Links
Search 🕚	Google 🔹 Yahoo! 🔹 Ask Jeeves LookSmart 🌈 Highlight 💮 WeatherBug Companion 87*			
Env	ronmental Review Help			
Start Over				
1 Project Type	Selected Primary Category: Development Within Municipalities			
2 Project Area	<b>Select Secondary Category:</b> Which one of these descriptions further defines your project.			
3 Project Placement 4 Project Summary	Commercial/industrial (mall) and associated infrastructure Public (school, library, church) and associated infrastructure Residential single dwelling and associated infrastructure Residential subdivision and associated infrastructure			
5 Project Results				
	Back     Next      My Projects     Update Profile	Logout Cle	ose Wind	ow
E) Done		📄 📄 🞯 Inter	met	
Start 🛛 🗹	🖄 💱 🥔 🖉 🖪 🖼 🐨 🔯 🧮 🎘 💐 🍳 🔍 🚄 👋 🛛 📴 Inbox 📴 Micro 🖻 scree 🖗 Envir 🦉 🗋 🔀		<b>37° ⊠</b> 4	:29 PM

🕘 Environmen	tal Review - Microsoft Internet Explorer provided by Arizona Game & Fish Department	_ 8
File Edit Vie	w Favorites Tools Help	
🗢 Back 🔹 🔿	👻 🙆 👔 🦓 🥘 Search 🕋 Favorites 🎯 Media 🧭 🛃 🤩 🥶 📰 📄 🥑 🛛 Failed to retrieve buttons from MyWebSearch. Retry	
Address 🥘 http	p://qaweb.esri.com/hgis%2Der/mainViewer.aspx	💌 🤗 Go Links
Search 🕚	Google 🔻 Yahool 👻 Ask Jeeves LookSmart 🌈 Highlight 💮 WeatherBug Companion 87*	
Env	ironmental Review	
Start Over		
1 Project Type	Selected Primary Category: Development Within Municipalities	
2 Project Area	Selected Secondary Category: Public (school, library, church) and associated infrastructure	
3 Project Placement	Select Tertiary Category: Which one of these descriptions further defines your project.	
4 Project Summary	Maintenance/expansion/rehabilitation of existing facilities New construction	
5 Project Results		
	(Back Next) My Projects Update Profile Logout	Close Window
Ē		🔮 Internet
Start ]	🏠 🚯 🥔 🔟 📴 🔣 🐨 🖸 🚟 🎘 🎘 🍳 🔍 🚄 👋 ] 🖸 Inbox ] 🖾 Micro ] 🗐 scree ] 🖉 Envir 🥄 🚬 🤇 🌾 🧟 🥸	) 🗐 🌆 🌫 <b>87" 🖂</b> 4:29 PM

🕥 🚺 Select 📷 🛛 🔍 - 🚺		P 🐯 🔊 - 📄 🔽 🗰					
	PROJECT CATEGORIES FOR HGIS ONLINE EVALUATION SYSTEM						
	MAJOR CATEGORY	SECONDARY	TERTIARY				
	Transportation & Infrastructure	Road Maintenance (including staging areas)	Repaving, ditch cleaning, culvert maintenance, etc.				
			Bridge maintenance (culvert maintenance, abutment repair, channel cleaning, deck replacement)				
			ROW maintenance (herbicide application, vegetation removal, fencing modification/installation)				
		Road construction (including staging areas)	Realignment/ new roads				
			Interchanges (ramps)				
			Road widening (shoulders or additional or new lanes)				
		Bridge replacement/New Construction	In-stream geotech boring, abutments, stream crossing, realignment, channelization, rip rap, vegetation removal				
		New roadway facilities	Roadway rest areas, emergency pull offs, run away truck ramps, cinder storage, additional storage or maintenance areas				
		Maintenance of existing roadway facilities					
		Railroads	New tracks, bridges, roadway crossing for freight or passenger lines,				
			Maintenance of existing tracks, bridges, roadway crossings, stations/terminals for freight or passenger lines, removal, etc.				
			Light rail transit				
		Airports	Maintenance on existing runways, taxiways, terminals/concourses, runway obstruction clearance, facilities, beacons, control towers, storm water run off controls, de-icing, fuel depots				
		6.0°	Construction of new runways,				

🗿 http://w	ww.azgfd.gov - Environmental Review - Microsoft Internet Expl	orer provided by Arizona Game & Fish Depa	rtment				
<b>(</b> ) E	nvironmental Review	Help					
Start Ove	r						
1 Project Type	Selected Project Category: Energy Storage/Production/Transfer, Energy Stora	ge, Tank removal/replacement (gas,	oil)				
2 Project Area	Please select a method to locate your project a	area					
3 Project	C Township and Range						
Placemer	C UTM CoordinatesZone 12 NAD 83						
4 Project	C Mile Marker						
Summary	C Latitude / Longitude (Decimal Degrees)						
5 Project	C Latitude / Longitude (Degrees/Minutes/Se	conds)					
Results	Please select a County:						
	APACHE ▼ APACHE COCHISE COCONINO GILA GRAHAM GREENLEE LA PAZ MARICOPA MOHAVE NAVAJO PIMA ▼						
	4 Back	Ne	xt ) My Projects	Update Profile	Logout	Close Window	
E Done							🔮 Internet 🏼 👘
🕂 Start	🤌 🖗 😂 🖪 🗶 🖉 🐨 🔕 🍓 🕑	C:\Documents and S	hots	screenshots_az.doc	) http://www.azg	ıfd.g 🖗 http://www.	azgfd 🤜 🏷 🕵 🖇 🕄 8:33 PM

![](_page_16_Figure_0.jpeg)

🚈 Environmental Review - Microsof	Internet Explorer provided by Arizona Game 8	k Fish Department				- 18
File Edit View Favorites Tools	Help					
수 Back • ㅋ • 🚳 🕼 🖓	Search 🔝 Favorites 🛞 Media 🎯 🔂 - 🎒	🗾 🥃 🥑   Failed to retrieve bu	ttons from MyWebSearch. Retr	У		
Address a http://qaweb.esri.com/hgis	%2Der/mainViewer.aspx				∂Go	Links
Search 🔹	Google 🔻 Yahoo! 🔹 Ask Jeeves	LookSmart 🕜 Highlight 💮 We	atherBug Companion 87*			
Environmental Re	view	Help				
Start Over Project Category: Dev	elopment Within Municipalities, Public (school,	library, church) and associated	infrastructure, New construc	ction		
1 Project TypeINSTRUC 1. Please select project area on the N submitting the project2 Project Orea2. Click on the N submitting the project	FIONS: DRAW PROJECT a tool to draw entire nap. C Draw a point C Draw a line EXT button to begin roject	<ul> <li>Please click on a question mark for more information on drawing tools.</li> </ul>				
Nica Point Line	Shape Clear Project					
3 Project Placement 4 Project Summary 5 Project Results 15	BUTTERWAL	TUCSON EAST		Le Tov Sta Inte Rai Maj Estan Lake Man Sub Maj and Citik Ow Estan	gend mship Lin teHwys irstates troads orLakes d ResRiv th Swamp Warsh or Stream Washes ona Cour indaries terness as	es -
The current sca	le is 1: 20598 41.52m	136.24ft		۲ <sup>4</sup> ا		
4 Back	Nex	riy Projects	Update Protile	Logout Close	windo	W.
E Done				🔹 🚺 👔 Interne	t	
🏦 Start 📗 🕜 🏠 🚯 🥭 🖉 🖸	🛛 🐨 🖸 🚟 🖾 💐 🍕 🖄 🚄 👋 🖸	Inbox Micro Mescree	@Envir 212/54	2 2 1 2 2 3 7	4:	32 PN

http://www.azgfd.gov -	Environmental Review - Microso	ft Internet Explorer provided	by Arizona Game & Fish De	partment
------------------------	--------------------------------	-------------------------------	---------------------------	----------

Environmental Review

Help

Start Over Project Category: Energy Storage/Production/Transfer, Energy Storage, Tank removal/replacement (gas, oil)

Start Ster	
1 Project Type	29 27 26 25 90 28 00 28 00 25 28 00 29 27 00 20 20 20 20 20 20 20 20 20 20 20 20
2 Project Area	32         33         721N, 86E         35         36         91         721N, 87E           Rogers Lake         33         36         91         21N, 87E         36         91         21N, 87E         36         91         37         36         37         36         37         36         37         36         37         36         37         36         37         36         37         36
3 Project Placement	BELLEMONT <sup>65</sup> <sup>73</sup> <sup>92</sup> <sup>01</sup> <sup>04</sup> <sup>96</sup> <sup>7</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>97</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup> <sup>96</sup>
Project Summary 5	
Project Results	DUTTON HILL 15 14 13 MOUNTAINAIPE 16
	To the best of my knowledge, I certify that this project and the following information is correct and complete. Please click on "Next" button to submit and process your project review.
	Please enter a name for your project:
	Project submitted on behalf of: ACOE
	Is this a final submission: Project locality is currently being scoped 💌
	Requestor: sschwartz Project type: Energy Storage/Production/Transfer - Energy Storage - Tank removal/replacement (gas, oil) Project Coordinates (UTM Zone 12-NAD 83): 428137.695, 3890137.851 meter Lat/Long: 35.152, -111.789 - DMS: 35 deg 9 min 5 sec, -111 deg 47 min 20 sec Project Area: 1076.981 acres Project Perimeter: 8711.424 meter NAME: COCONINO
	Township and Range: T21N, R6E,T20N, R6E
	(Back Next) My Projects Update Profile Logout Close Window
Applet com.	esri.applications.javamap.JavaMap started
🏄 Start 🛛 🅭	🛿 🕼 🕼 🔟 🔟 🔀 🖉 🐨 🖸 🚄 🍭 饕 📀 👘 🔯 C: \Documents and S 🕲 receipt screen shots 🕲 az_hgis.ppt 🛛 🕲 screenshots_az.doc 🖗 http://www.azgfd.g 🖗 http://www.azgfd.g

🖉 Environmental Review - Microsoft Internet Explorer provided by Arizona Game & Fish Department 👘	<u>_ 8</u>
File Edit View Favorites Tools Help	
🗢 Back 🔹 🔿 🐇 🔯 🔞 🐼 Favorites 🖓 Media 🎯 🔂 🚽 🗐 🛃 🛃 🖓 Failed	to retrieve buttons from MyWebSearch. Retry
Address 🚳 http://qaweb.esri.com/hgis%2Der/mainViewer.aspx	🔽 🔗 Go 🛛 Link
Google 🔹 Yahoo! 🔹 Ask Jeeves LookSmart 🔔 High	light 💮 WeatherBug Companion 87*
Environmental Review Help	
Start Over Project Category: Development Within Municipalities, Public (school, library, church) and	l associated infrastructure, New construction
1Project receipt saved successfully. Select "My Projects" for list of projects and receipts.If expe Reade	riencing receipt problems, please ensure <b>Adobe Acrobat</b> r is installed.
Type 📓 🚔 🤮 🙌 🕅 🐨 🌆 🔍 - 🗋 🗋 🎦 😁 43%	- 💿 🕼 🖓 🖓 🕞
Project Area State Decomposition Area State State Decomposition Area State	
3       Project       Project Looation       Description         4       Project       Summary       To Construct the second of t	Ruracy Dicolalmer       Igns are assumed to be both precise and the purposes of environmental restance. The is of the Project Review Receipt is solely for the project Review Receipt content.       Import Statemental Content in the project is solely in the project Review Receipt content.       Import Statemental Content in the project is solely in the project restance in the project is solely in the project restance in the project is the project is in the project restance in the project is the project is in the project in the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the intervent in the project is the project is the project is the project is the intervent in the project is the project is the project is the project is the intervent in the project is the project is the project is the project is the intervent in the project is the
	NALS:
1 of 5	
<back my="" next="" pr<="" td="" →=""><td>ojects Update Profile Logout Close Window</td></back>	ojects Update Profile Logout Close Window
Cone	🛛 🚺 💓 Internet
🏽 🕄 🔁 🎦 🕲 🖉 📴 🖾 🐨 🖸 🚟 🌋 🗶 🍳 🖾 🚄 👋 🖸 🖾 🖾 🕅 🖾 🕅 🖾 🕅 🖾 🕅 🖾 🖉	🗐 scree 🖉 Envir 🛛 🔁 🔨 🍕 🥘 🖉 🌆 🏷 87" 🖂 4:34 PM

## Receipt has many results

- Seneral language based on project type as well as species specific
- Allows integration to the Comprehensive Wildlife Conservation Strategy (CWCS) threat matrix for tracking for cumulative statewide species impacts based on project types
- Special handling guidelines for burrowing owls and Sonoran desert tortoise
- Fencing guideline for pronghorn; timeframes for projects such as bridges
- Reference to tribal and federal agencies with contact information for further coordination (e.g. permitting or consultation)

![](_page_21_Figure_0.jpeg)

Arizona's On-line Environmental Review Tool Search ID: Project Name: Date:

#### Project Type: Transportation & Infrastructure Road Maintenance (including staging areas) ROW Maintenance

#### Project Type Recommendations (these are examples):

During the planning stages of your project, please consider the local or regional needs of wildlife in regards to movement, connectivity, and access to habitat needs. Loss of this permeability prevents wildlife from accessing resources, finding mates, reduces gene flow, prevents wildlife from recolonizing areas where local extirpations may have occurred, and ultimately prevents wildlife from contributing to ecosystem functions, such as pollination, seed dispersal, control of prey numbers, and resistance to invasive species. In many cases, streams and washes provide natural movement corridors for wildlife and should be maintained in their natural state. Uplands also support a large diversity of species, and should be contained within important wildlife movement corridors. In addition, maintaining biodiversity and ecosystem functions can be facilitated through improving designs of structures, fences, roadways, and culverts to promote passage for a variety of wildlife. See Guidelines for Incorporating Wildlife Permeability into Project Design.

Hydrological considerations: design culverts to minimize impacts to channel geometry, or design channel geometry (low flow, overbank, floodplains) and substrates to carry expected discharge using local drainages of appropriate size as templates. Aquatic wildlife considerations: reduce/minimize barriers to migration of amphibians or fish (e.g., eliminate falls). Terrestrial wildlife: washes and stream corridors often provide important corridors for movement. Overall culvert width, height, and length should be optimized for movement of the greatest number and diversity of species expected to utilize the passage. Culvert designs should consider moisture, light, and noise, while providing clear views at both ends to maximize utilization. For many species, fencing is an important design feature that can be utilized with culverts to funnel wildlife into these areas and minimize the potential for roadway collisions. See detailed recommendations in Guidelines for Incorporating Wildlife Permeability into Project Design.

### Project Location and/or Species Recommendations: (Link to abstracts)

Heritage Data Management System records indicate that one or more listed (Threatened, Endangered, Proposed, or Candidate) species or Critical Habitats (Designated or Proposed) have been documented within the vicinity of your project area (refer to the species list on page 1 of the receipt). Please contact:

Indian Tribal Lands are within the vicinity of your project area (refer to page 1 of the receipt) and may require further coordination. Please contact:

Heritage Data Management System records indicate that one or more native plants listed on the Arizona Native Plant Law and Antiquities Act have been documented within the vicinity of your project area (refer to page 1 of the receipt). Please contact:

Heritage Data Management System records indicate that Sonoran Desert Tortoise have been documented within the vicinity of your project area (refer to the species list on page 1 of the receipt). Please review the Tortoise Handling Guidelines found on the the web page for Arizona's On-line Environmental Review Tool. (add PDF link to guidelines)

Heritage Data Management System records indicate that Western Burrowing Owl have been documented within the vicinity of your project area (refer to the species list on page 1 of the receipt). Please review the relocation procedures recommended for burrowing owls found on the web page for Arizona's On-line Environmental Review Tool. (add PDF link to guidelines)

Page 3 of 6

APPLICANT INITIALS:\_\_\_\_\_

## **Anticipated Outcomes**

- Standardized response
- Assessing potential cumulative effects for early development of mitigation or project modification measures
- Improved customer service from 30 days to 30 minutes
- Allow more staff time for review of EA, BA, EIS documents and large area project (e.g. pipelines)
- Ties to the Comprehensive Wildlife Conservation Strategy (CWCS)
- Process improvement cost and time savings

## Anticipated Outcomes (Cont.)

- > Data driven decision making
- Conservation groups looking to prioritize areas of biodiversity
- Providing recommendations or guidelines early in the process for minimizing impacts to wildlife and habitats
- Consolidation of hardware/software within the Agency
  - Reduction of software license costs
  - Reduction of hardware costs
  - Easier to maintain when all in same place