Arkansas State Parks GIS

Park Information Management System



What is GIS?

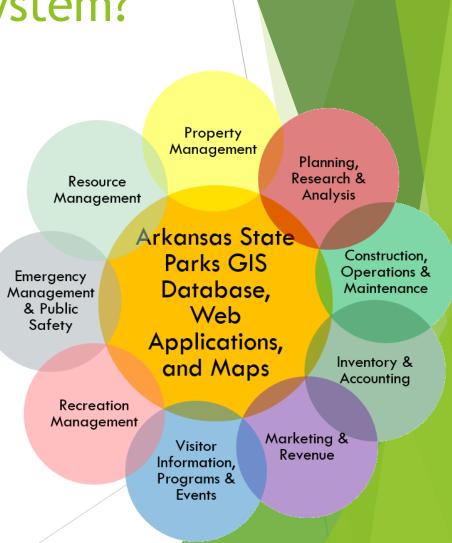
A Geographic Information System (GIS) is a system of tools used to relate data to geographic coordinates in order to visualize both the data and its location on a map.

So... what's GPS?

A Global Positioning System (GPS) is a tool that uses satellites to determine a GPS receiver's location on the planet. It is also acts as a "GIS", in that it assigns at least two pieces of data to the location, known as coordinates.

What is the Arkansas State Parks GIS and Park Information Management System?

- GIS, databases, and web technology combine together to form the Park Information Management System
- This system serves at a one-stop-shop for park information, including maps, data, and the analysis of both
- GIS information is used by almost every State Parks employee in every line of work, including all 52 State Park locations, the Central Office, and the State Parks Exhibit Shop... whether they know it or not
- Recreational, cultural, historical, educational, and natural resource opportunities throughout the state are being developed, operated, and managed with the help of GIS maps and data

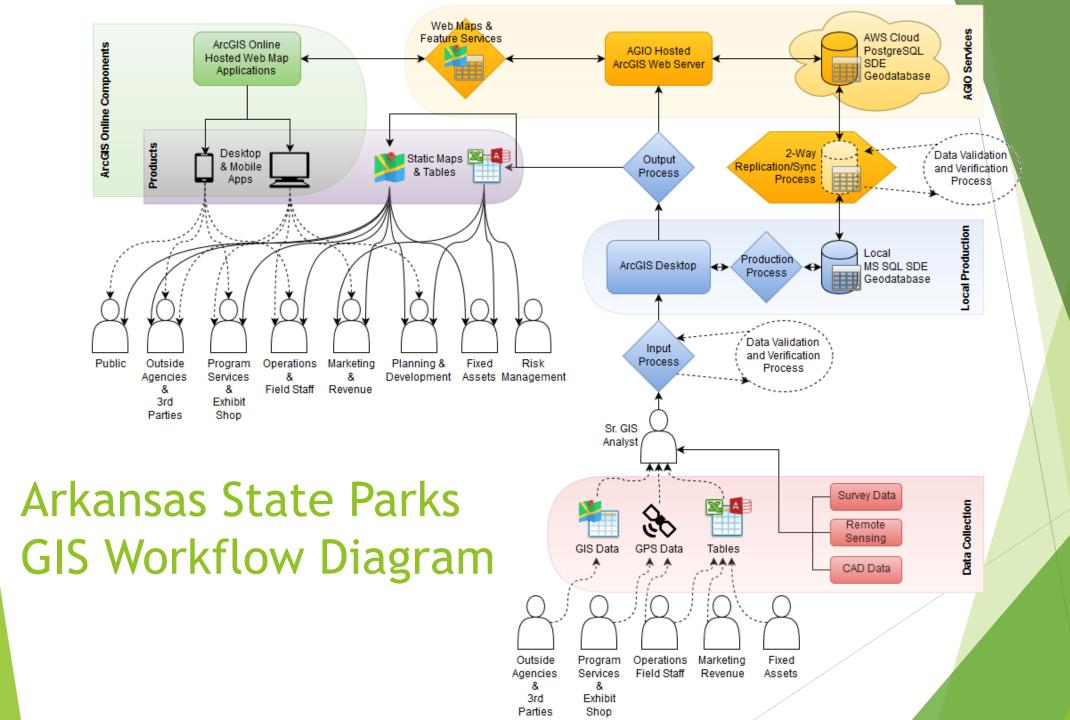


How do we get it done?

- Requests for help, understanding (WHY), and planning
- Data collection and processing
- Database development and management
- Mapping, reporting, analyzing everything
- Web service and interactive map development
- Overcoming software, hardware, and GIS infrastructure challenges
- Overcoming "institutional" challenges and accepting new capabilities
- Hundreds of passionate people doing thousands of uniquely important things across the entire state
- GIS magically, sometimes accidentally, and sometimes painfully brings it all together, not just for one person, but for everyone
- It's all explained in a simple diagram on the next slide

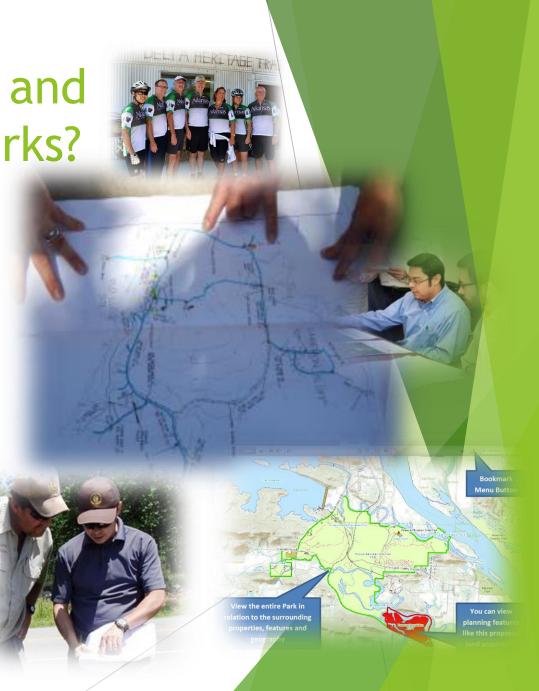


a direct USB-to



...but what does all this mean and how can it help us manage parks?

- In short, GIS staff work together with everyone to collect data and produce information that will be used to help get things done.
- Information is typically gathered for specific individual reasons, but once it's added to the GIS, it then becomes available for use by everyone
- This information helps feed reports, maps, graphics, analysis, publications, web content, maintenance, inventory, accounting, law enforcement, emergency response, etc..
- As data accumulates, layers upon layers become rich with information used to satisfy multiple needs across the entire agency, between agencies, and even the public



So, what amazing things can happen when passionate people, interactive maps, helpful information, and fancy technologies collide?

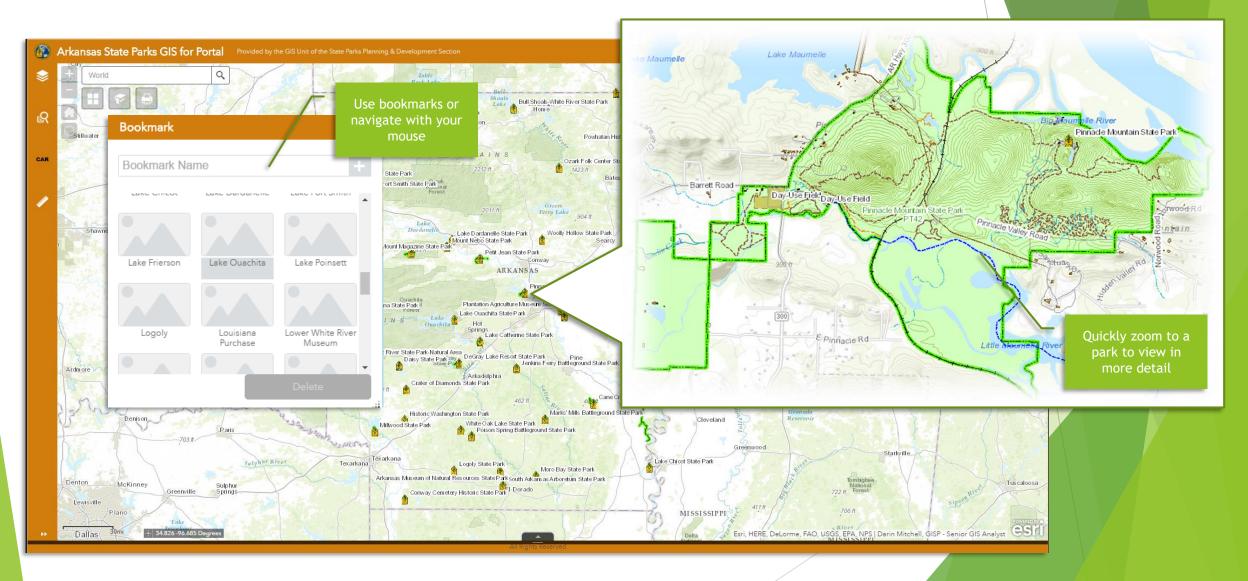
The Arkansas State Parks GIS Web App is what happens!

- ✓ Accessible on desktops and most mobile devices
- ✓ Viewable, editable, printable, and downloadable data and maps...
- ✓ Anywhere
- ✓ Anytime
- ✓ Online
- Offline(with limited functionality, but still cool)

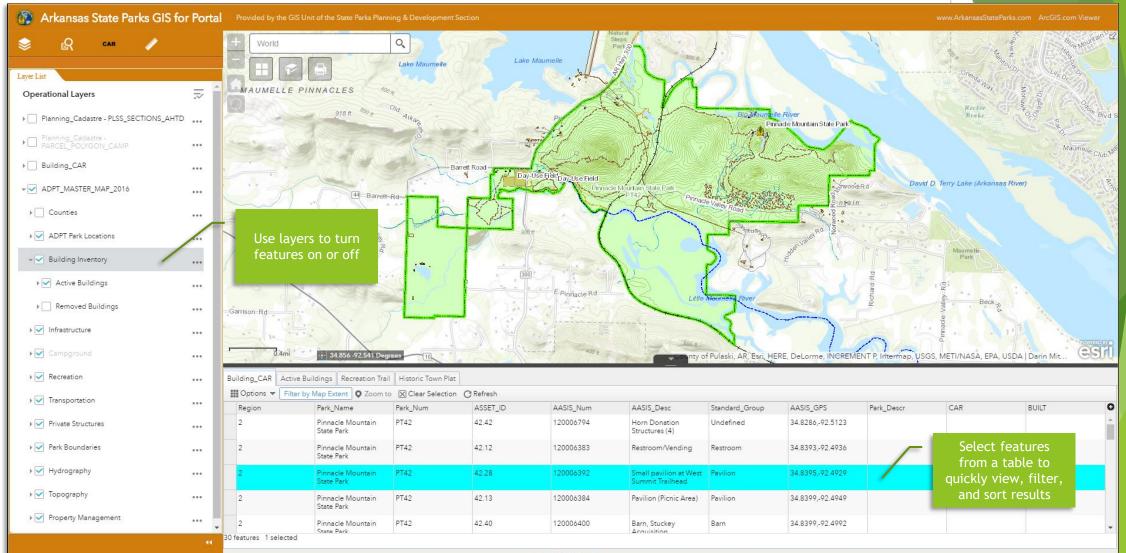
The Arkansas State Parks GIS Web Application is the "one-stop-shop" to...



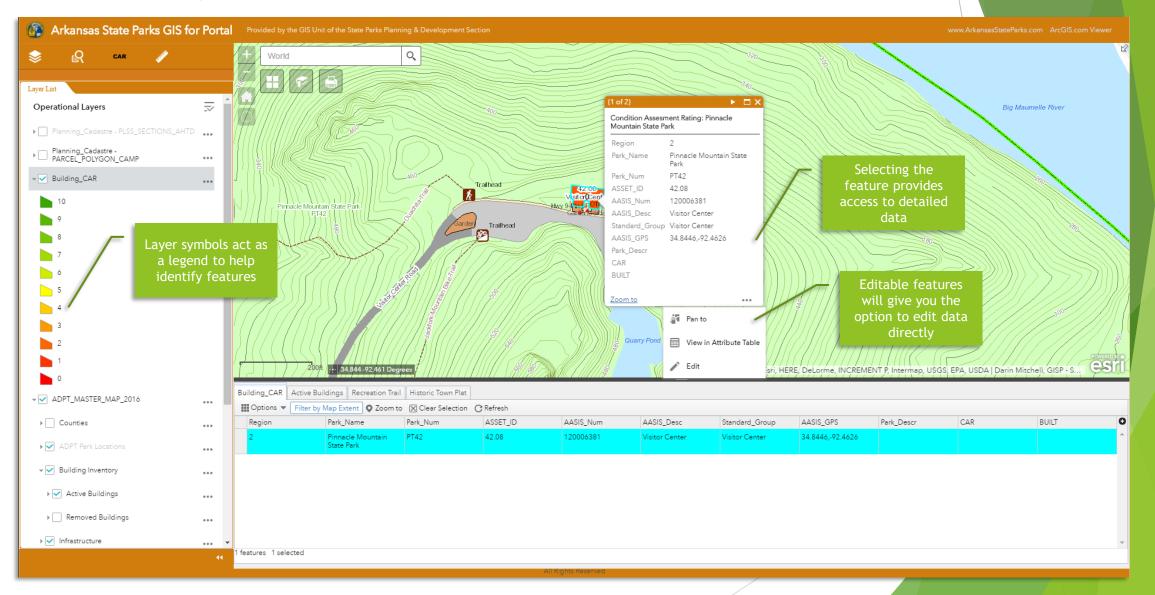
quickly locate a State Park...



locate a building or recreational facility...



instantly view and edit detailed data...



view and edit in real-time, anytime, anywhere, and from your desktop and mobile devices...

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2	Pinnacle Mountain State Park	PT42	42.08	120006381	Visitor Center	Visitor Center	34.8446,-92.4626				*

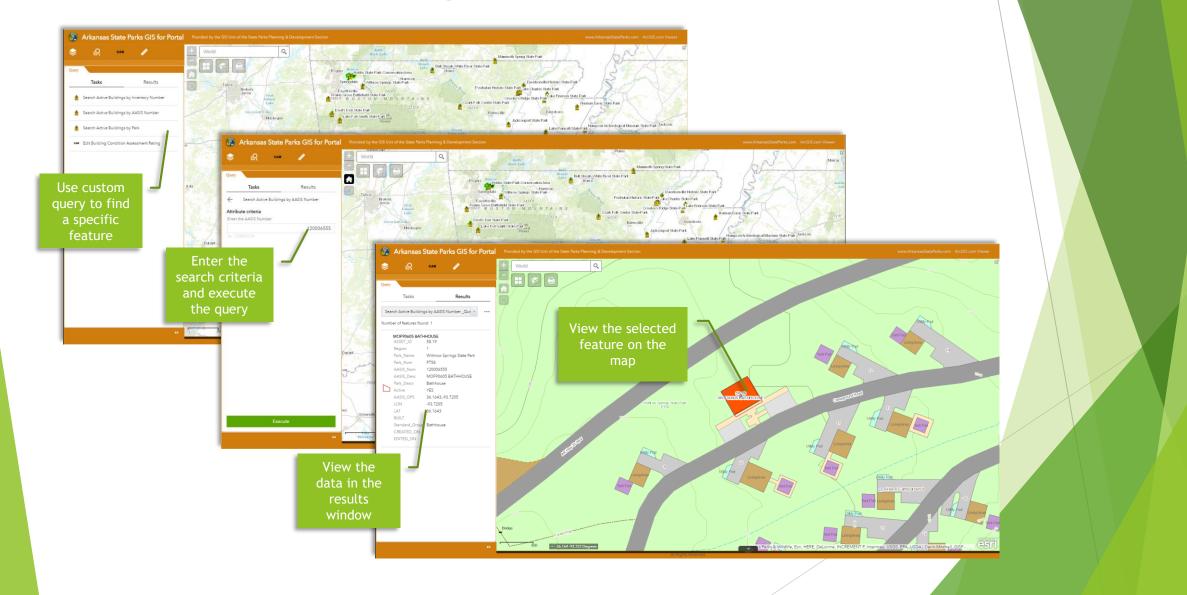
watch as your changes are applied and the map automatically updates ...

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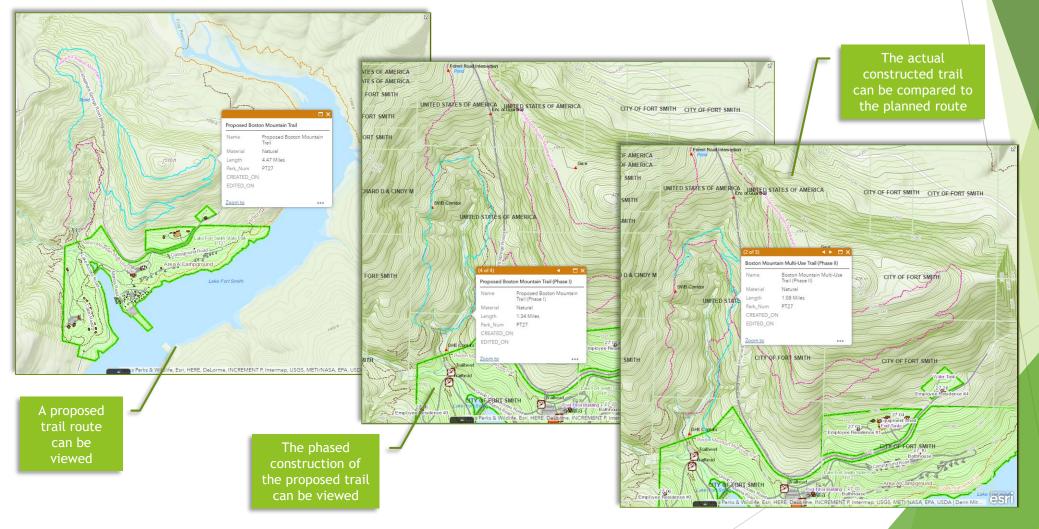
But wait, there's so much more...



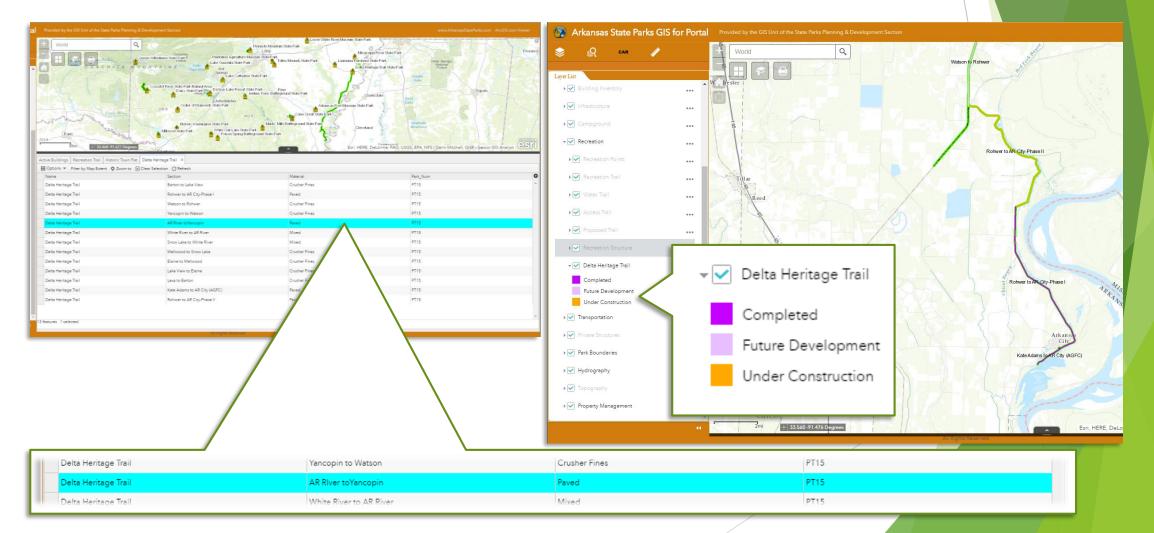
execute custom queries...



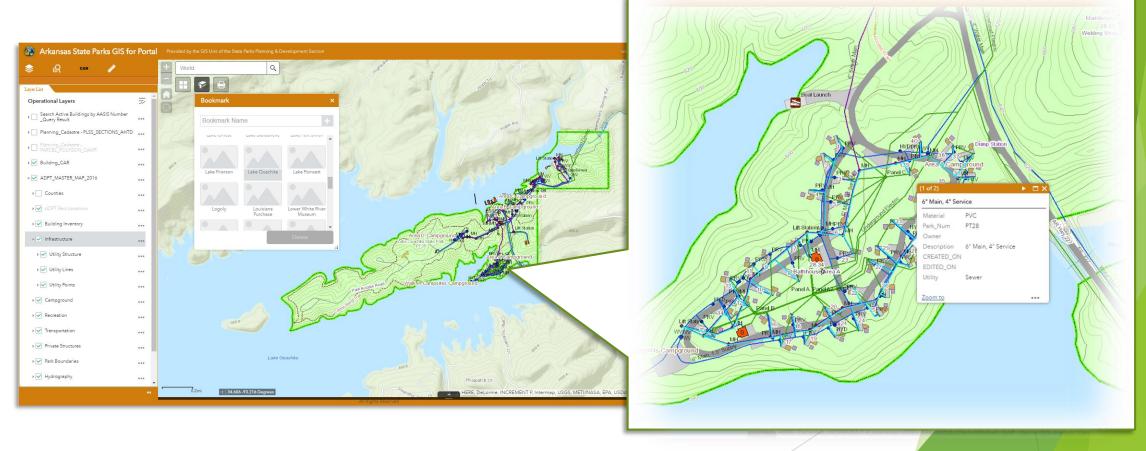
see active development projects and monitor progress...



monitor projects under construction and track their completion status...



turn on operational layers to quickly locate and view infrastructure for operation and maintenance...



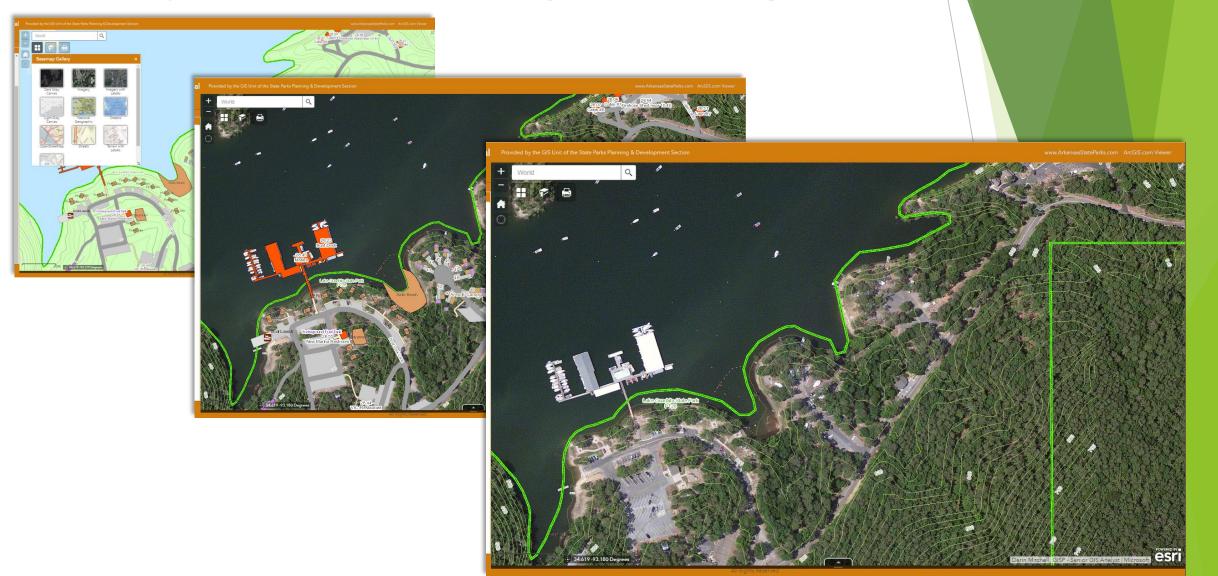
locate and track facility permits, design information, and more...

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PT12	ADPT	WWTP			35,000 GPD	AR0035947				
PT69	ADPT	WWTP			4,500 GPD	AR0051845		Capacity	50,000 GPD	
PT23	ADPT	WWTP			30,000 GPD	AR0038121				
PT14	ADPT	WWTP			80,000 GPD	AR0037061		Permit	AR0036811	
735 T	ADPT	WWTP			72,000 GPD	AR0048852				
PT16	ADPT	WWTP			40,000 GPD	AR0037940		Expiration	6/29/2017, 7:00 PM	
PT59	ADPT	WWTP			25,000 GPD	AR0037087				
PT55	ADPT	WWTP			25,000 GPD	AR0038202	1			
PT54	ADPT	WWTP			5,000 GPD	AR0040380		Zoom to		
PT07	ADPT	WWTP			2,500 GPD	AR0045888		Zoom to		
PT46	ADPT	WWTP			50,000 GPD	AR0037605		S. /		
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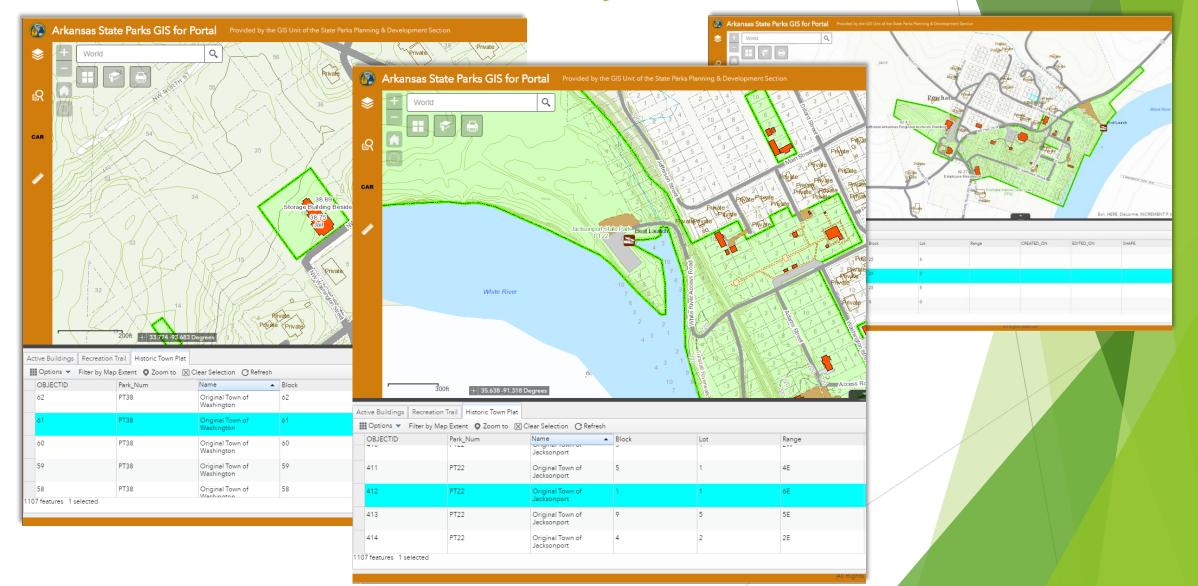
view assets for assessment and planning...



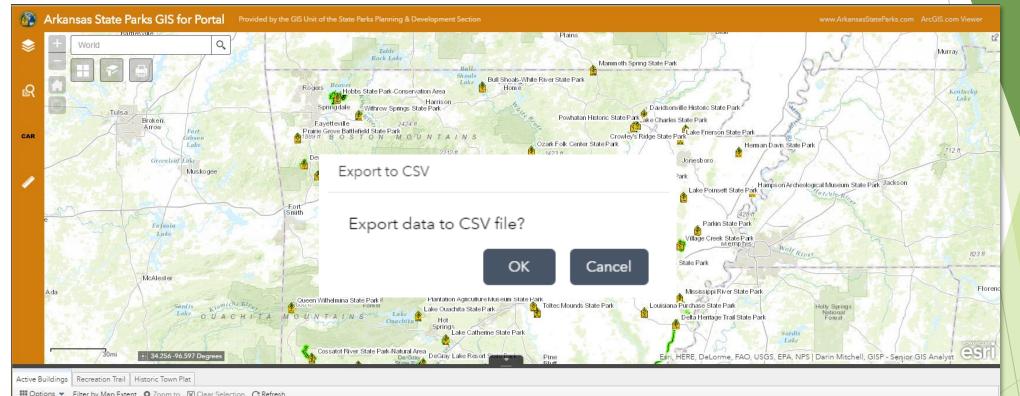
turn layers off and change basemaps...



view boundaries and survey data...



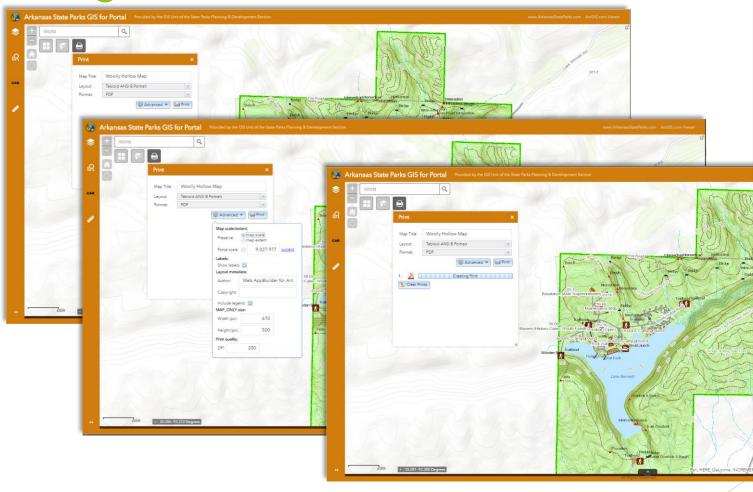
Export and download data...

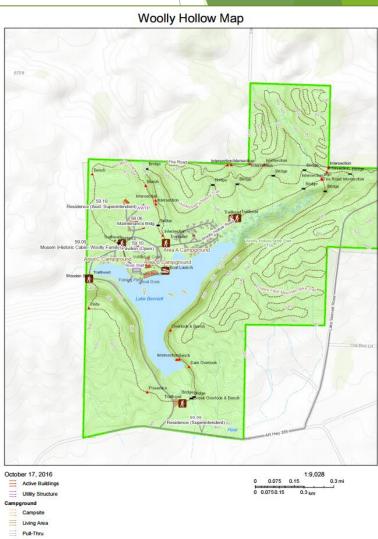


Show Selected Records	ark_Num	Park_Name	ASSET_ID	AASIS_Num	AASIS_Desc	Park_Descr	AASIS_GPS	BUILT	Standard_Group	car	C
Show Related Records Filter	PT41	Petit Jean State Park	41.06	120006300	Boat House/Snack Bar	Boat House	35.1296,-92.9204		Boat House		-
Show/Hide Columns	PT41	Petit Jean State Park	41.08	120006302	Pavilion (Area B)	Pavilon B	35.1292,-92.9227		Pavilion		
Export All to CSV	PT41	Petit Jean State Park	41.05	120006299	Pump House (Near Hardison Hall)		35.1292,-92.9191		Utility Building		
5	PT41	Petit Jean State Park	41.09	120006303	Pavilion (Area A)	Pavilion A	35.1282,-92.9245		Pavilion		
5	PT41	Petit Jean State Park	41.60	120006348	Restroom VIC	Restroom at VIC	35.1277,-92.9193		Restroom		
5	PT41	Petit Jean State Park	41.13	120006306	Bathhouse (Area A)	Area A Bathhouse	35.1275,-92.9154		Bathhouse		
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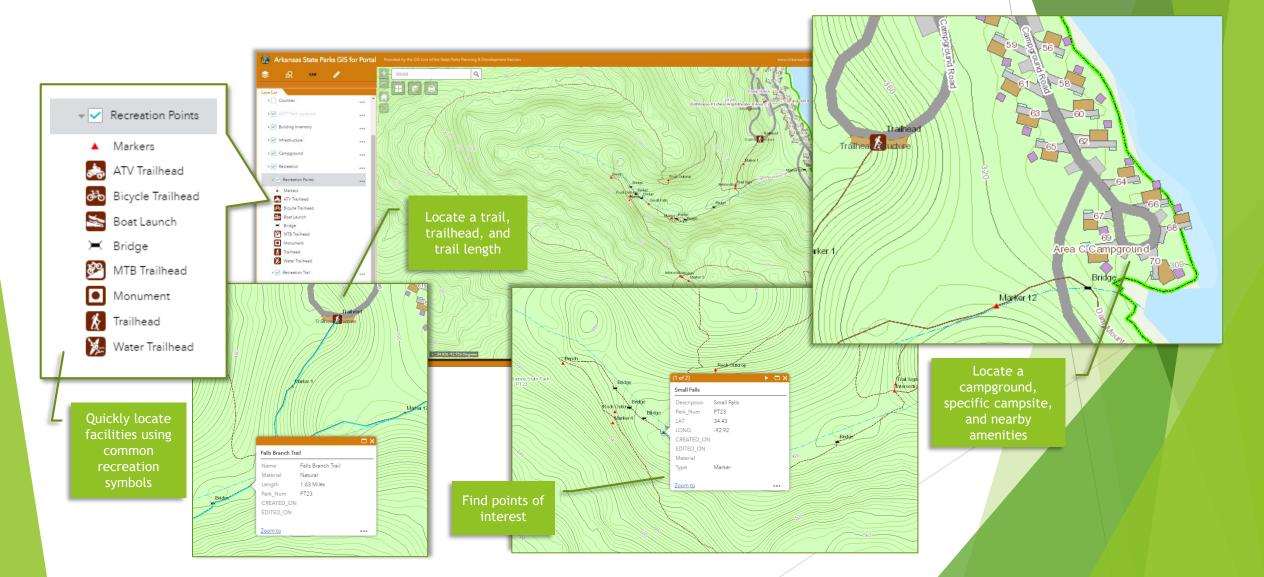
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Print detailed maps and download GeoPDFs to your PC or mobile device for offline navigation...

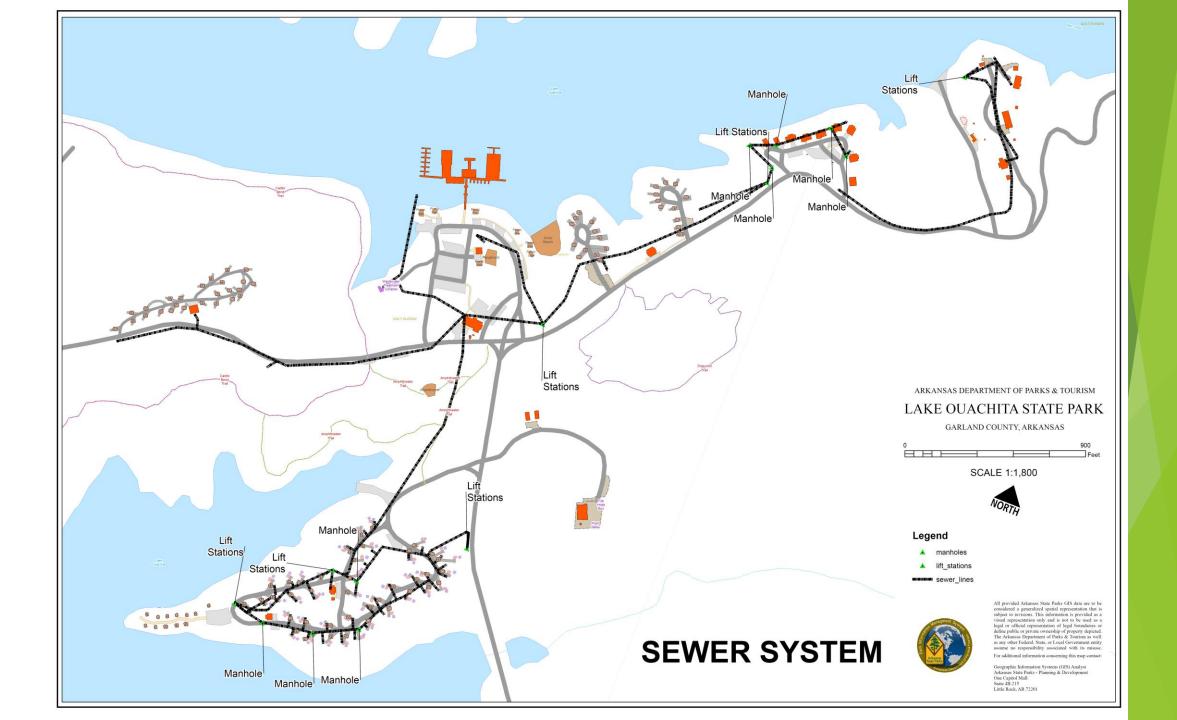


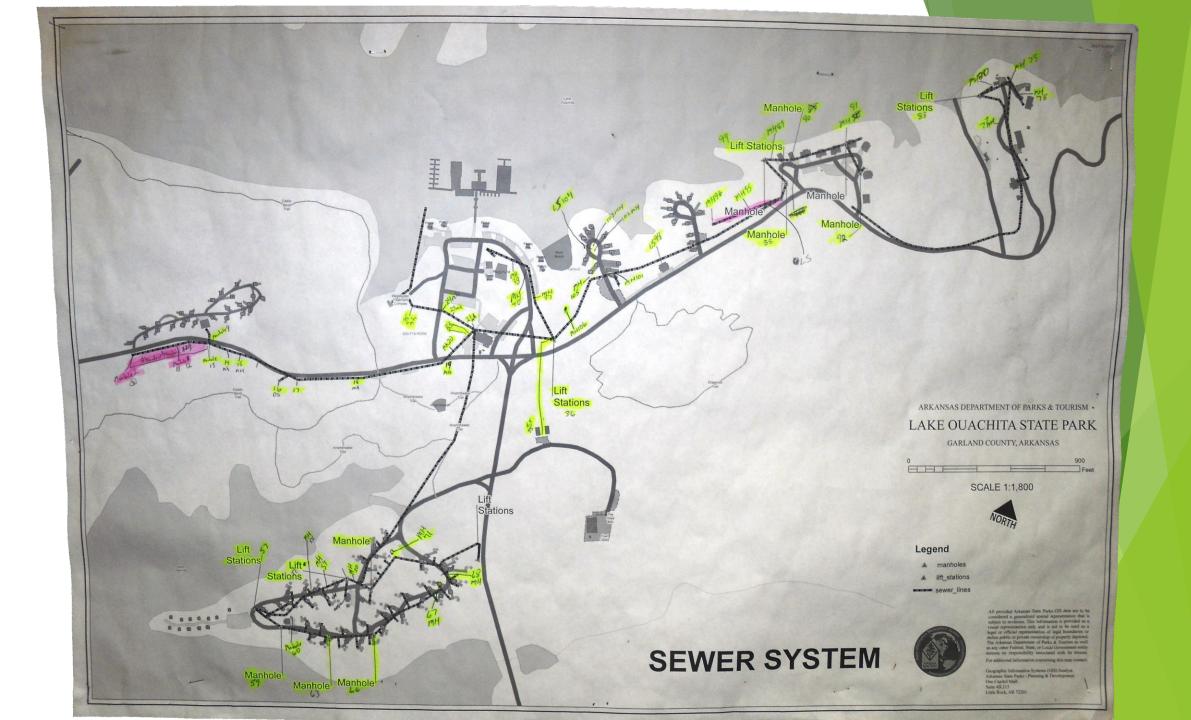


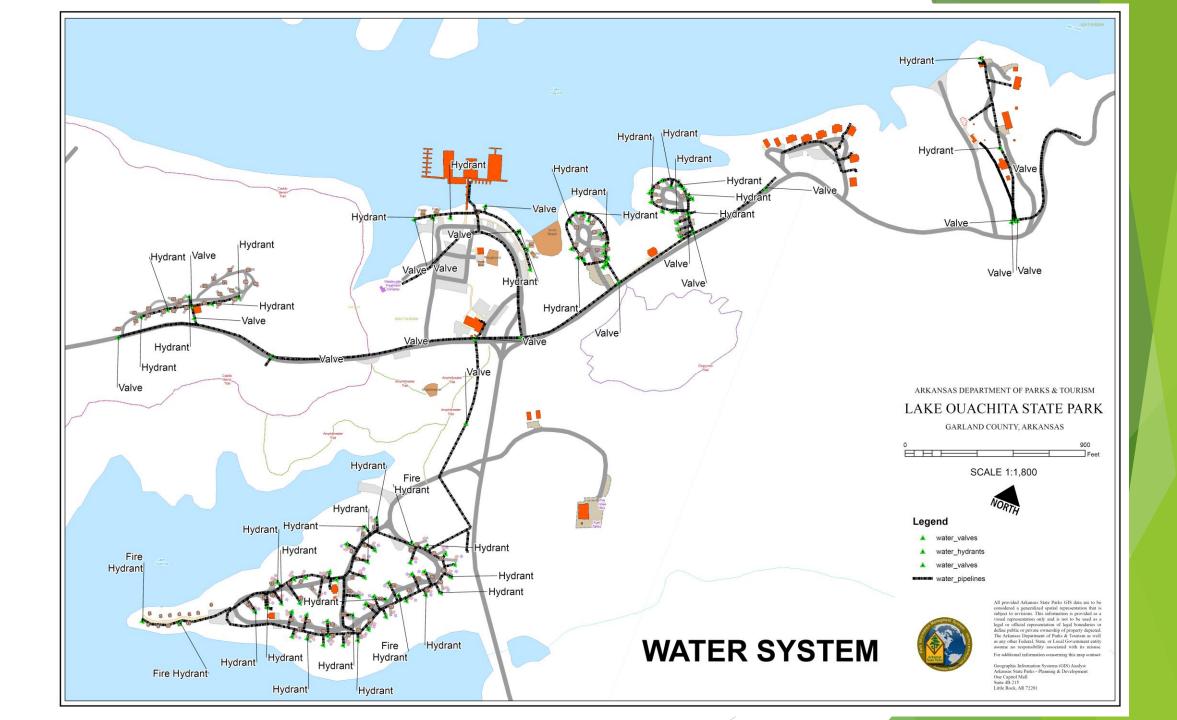
and eventually, allow the public to explore Park resources and plan their visit online...

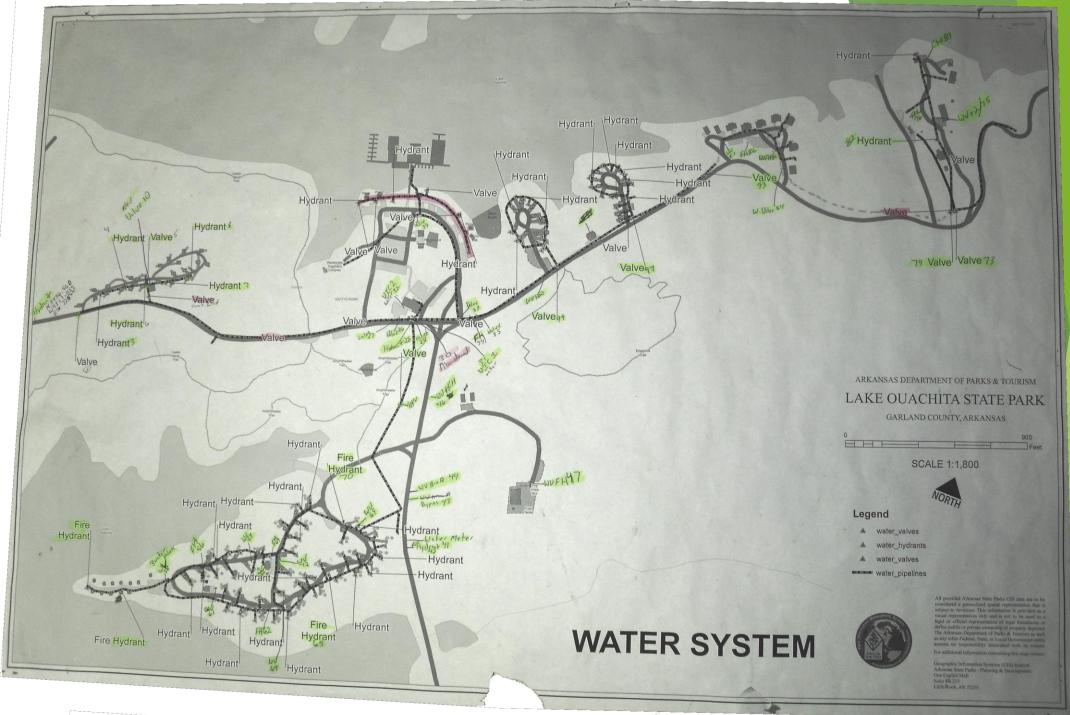


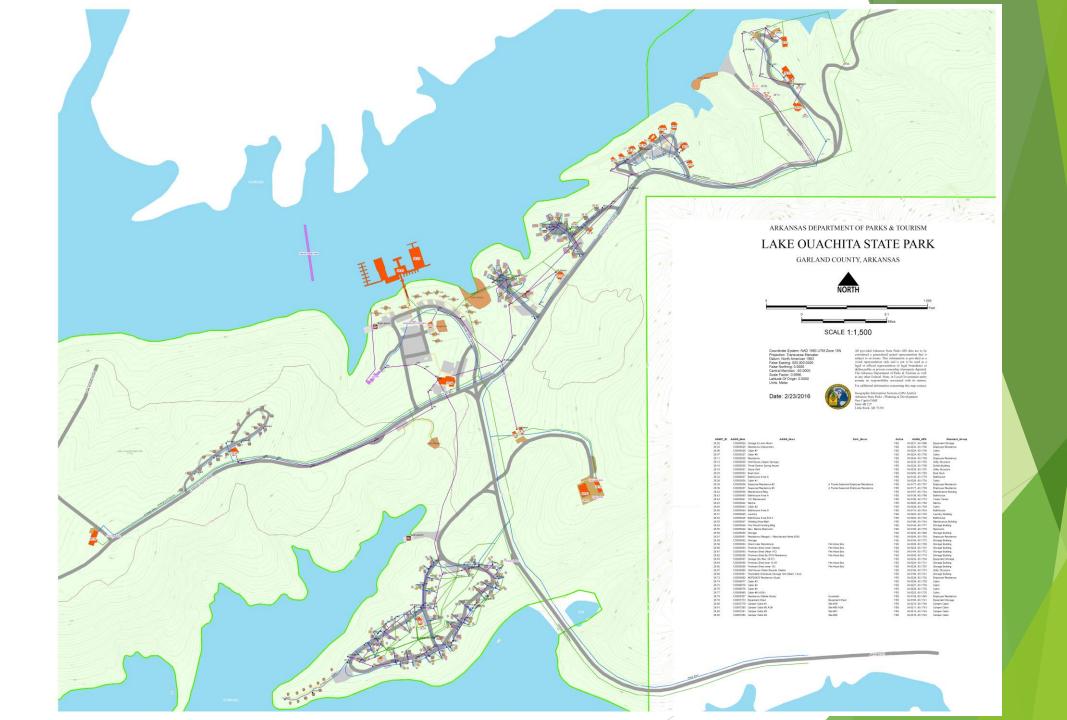
Example: Lake Ouachita State Park Infrastructure Mapping



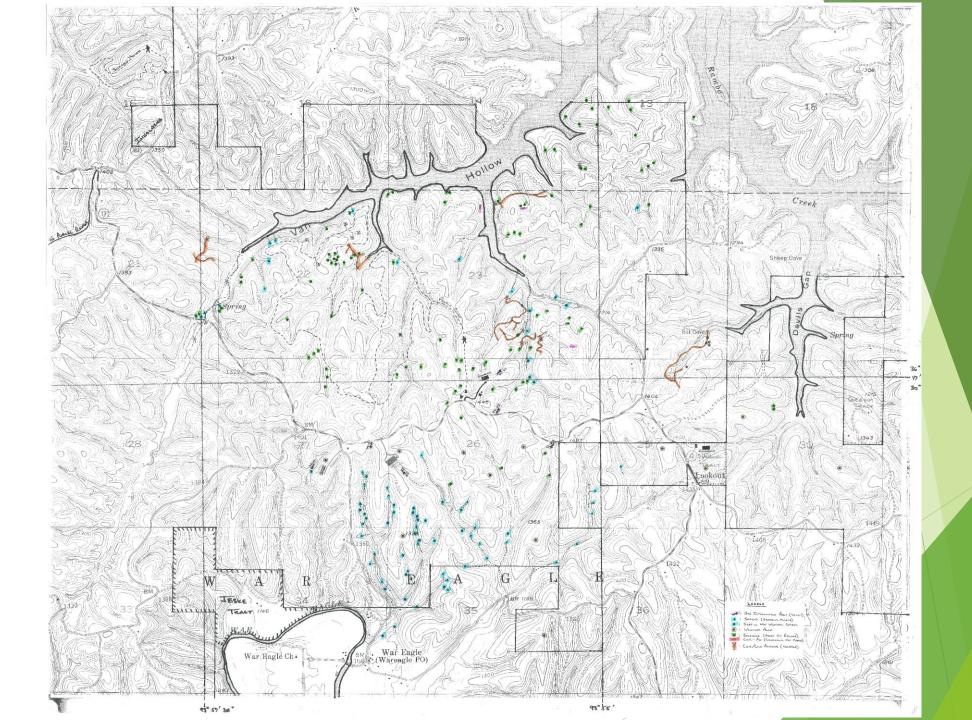


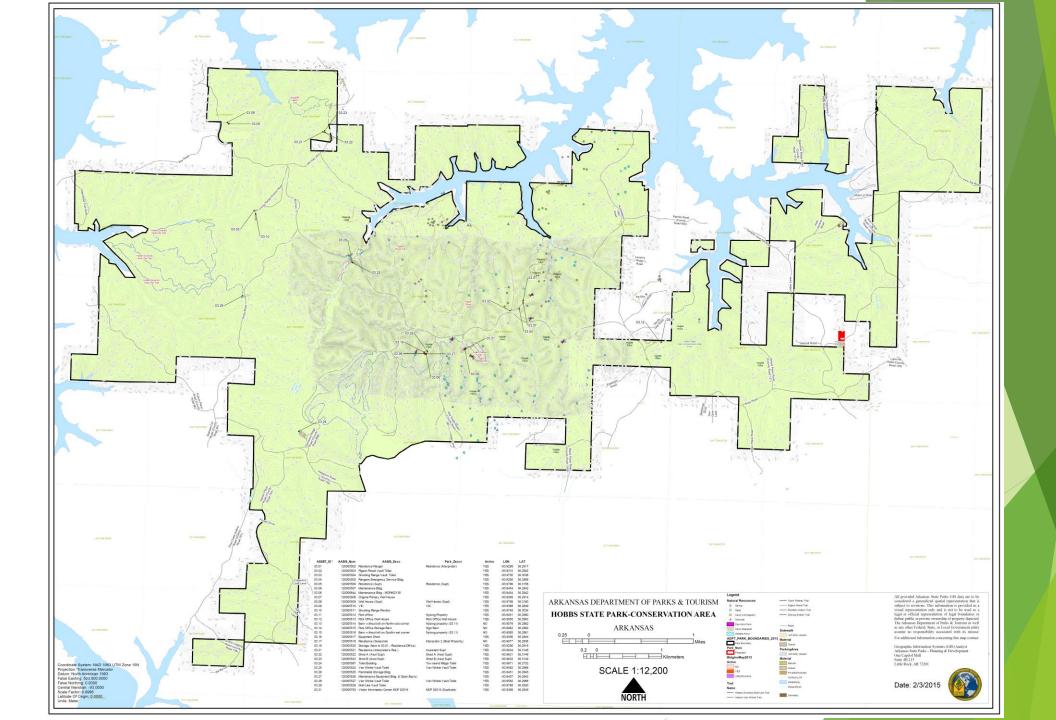


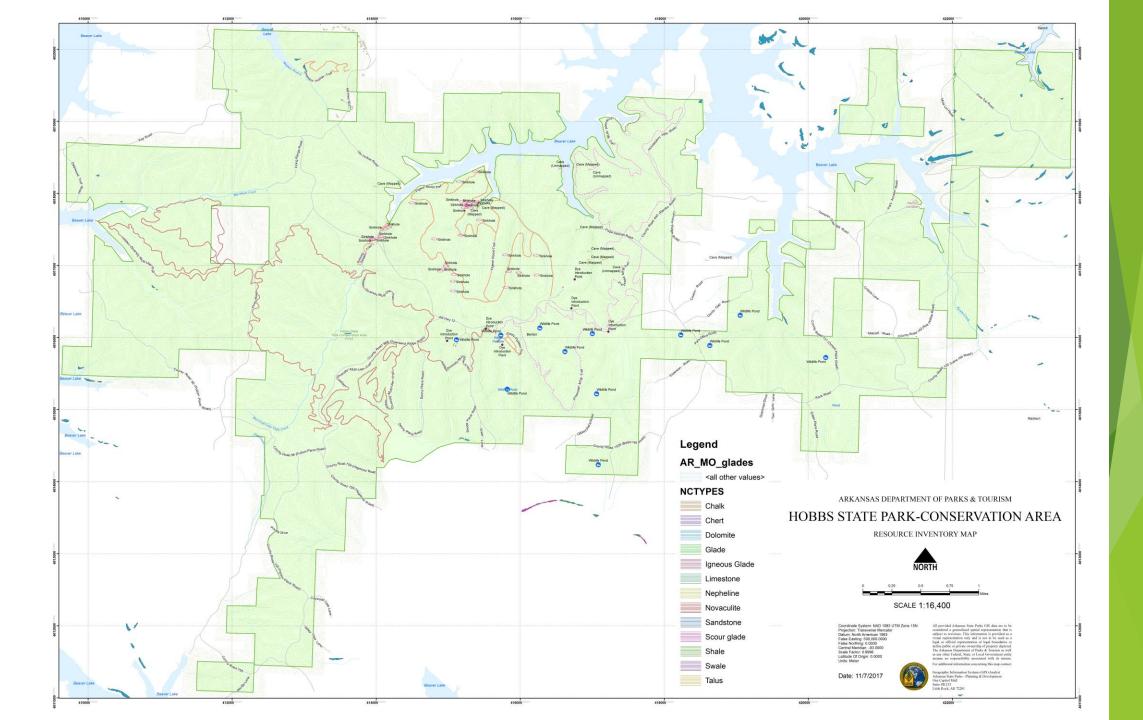


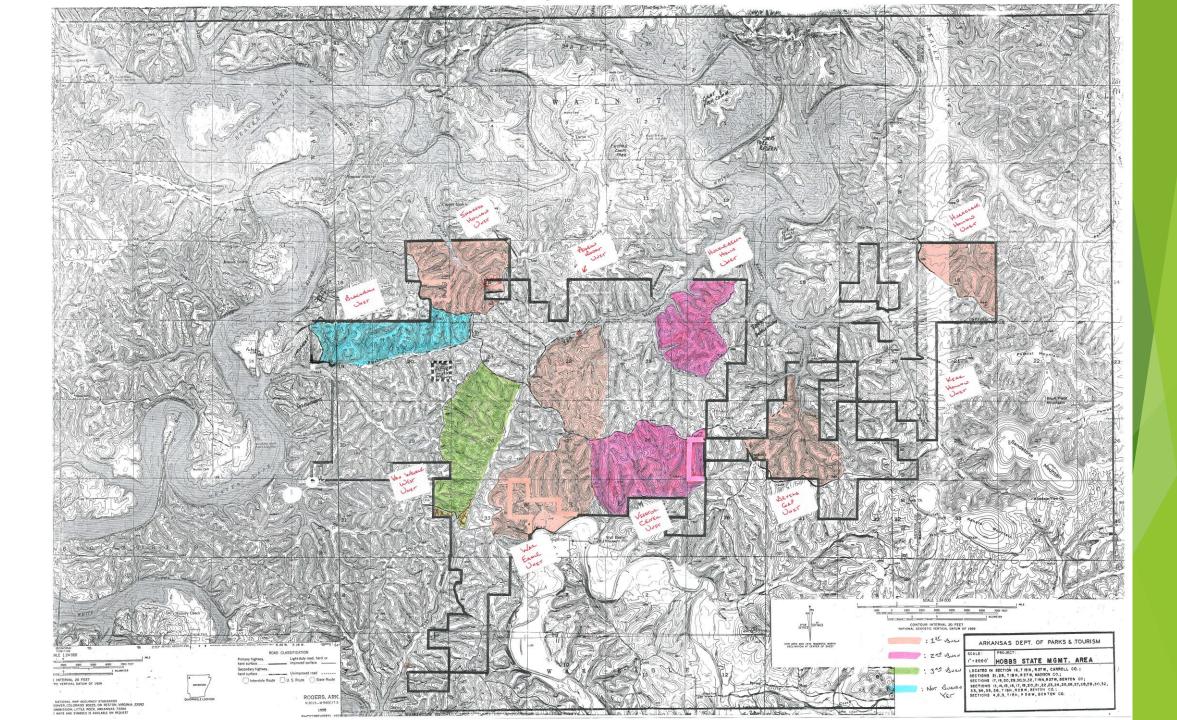


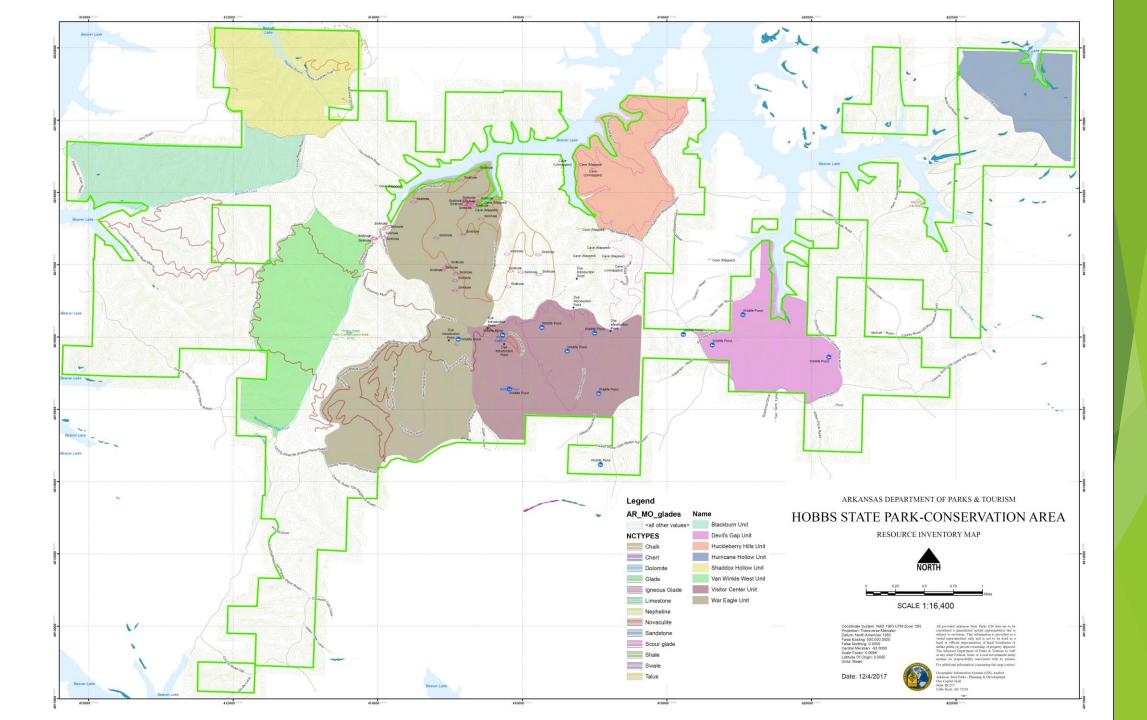
Example: Hobbs State Park-Conservation Area Resource Inventory



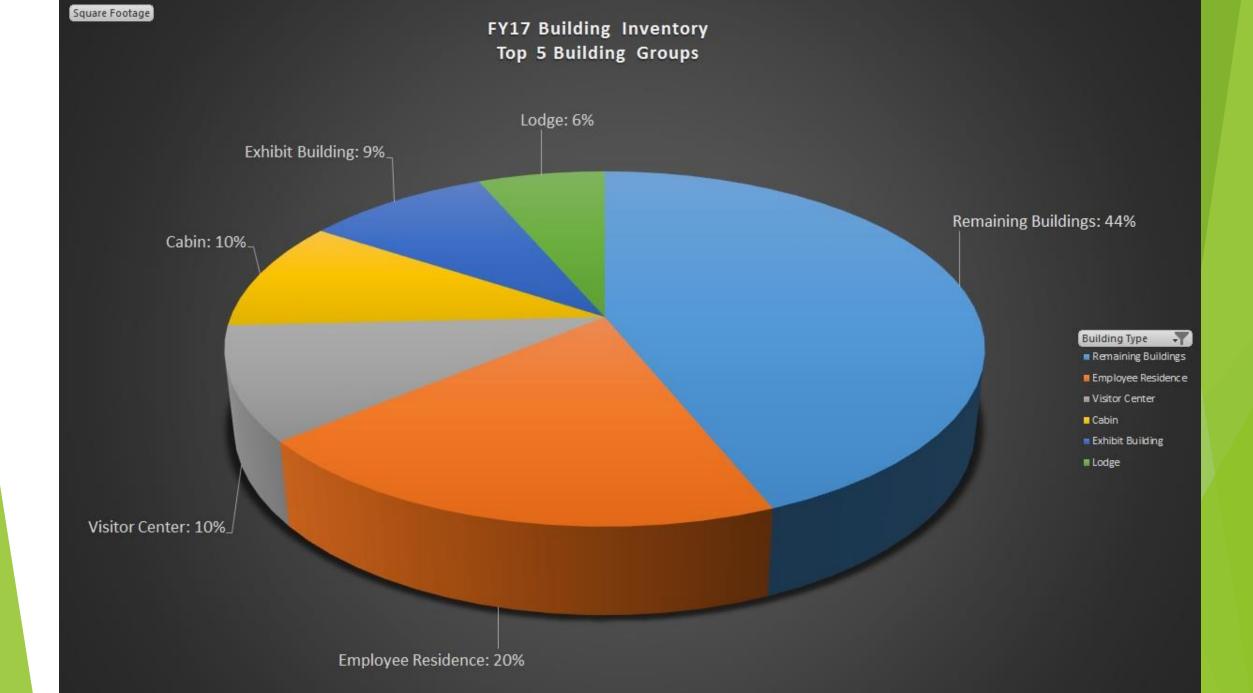


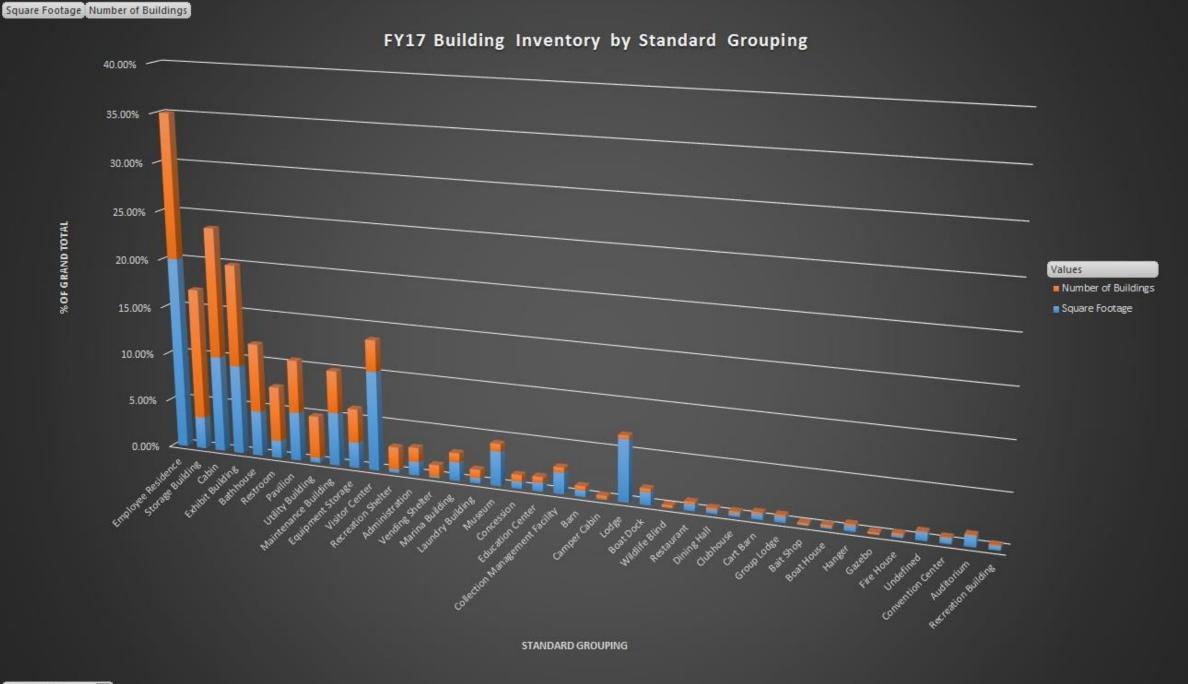






Example: Building Inventory at a glance

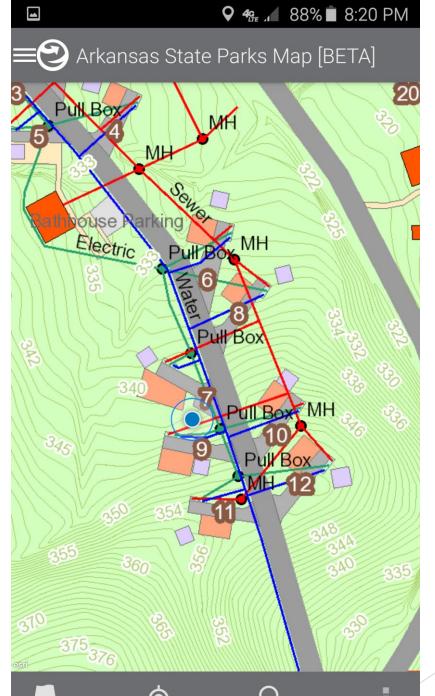




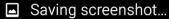
Standard_Group 🔫

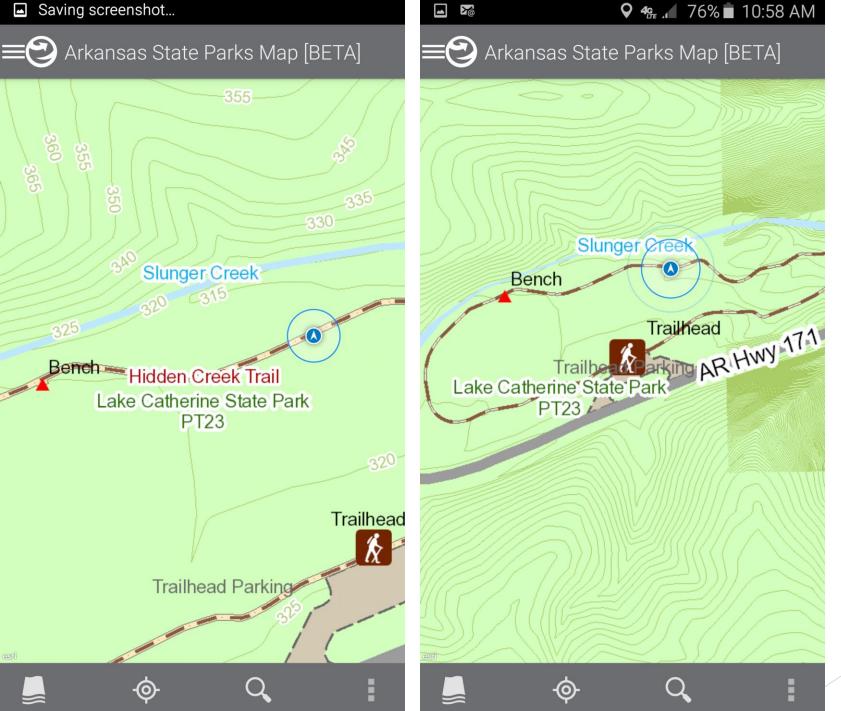
Example: Mobile Application

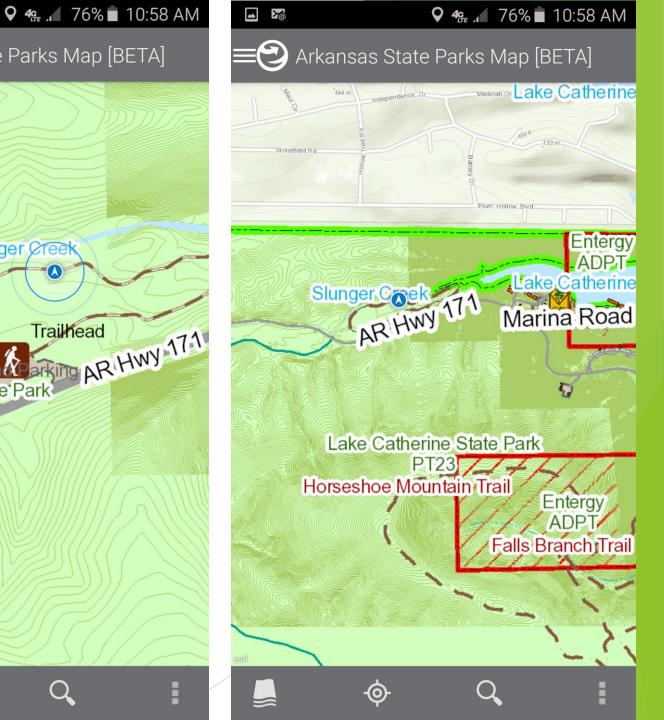








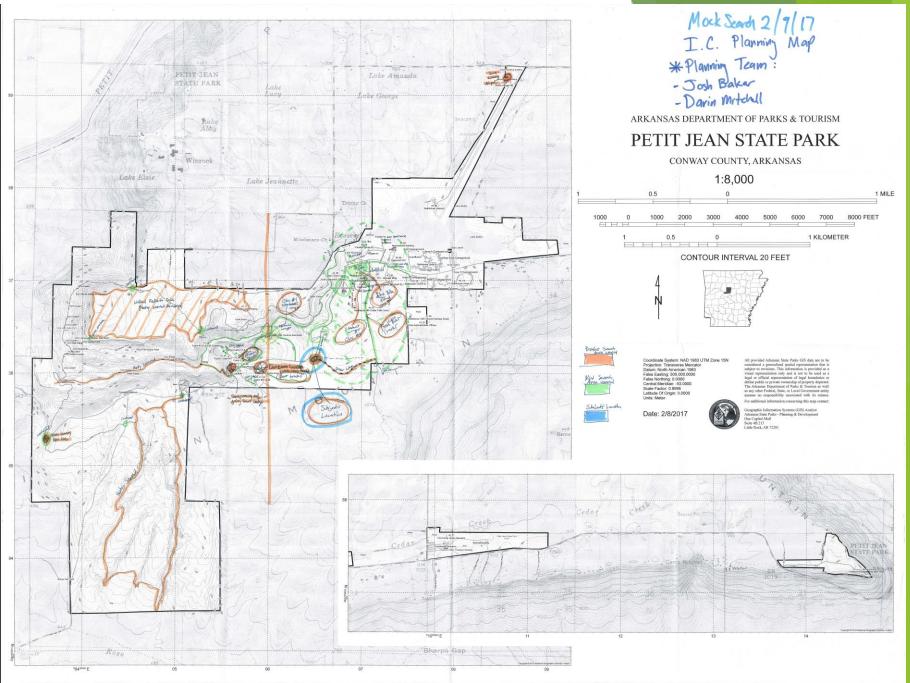


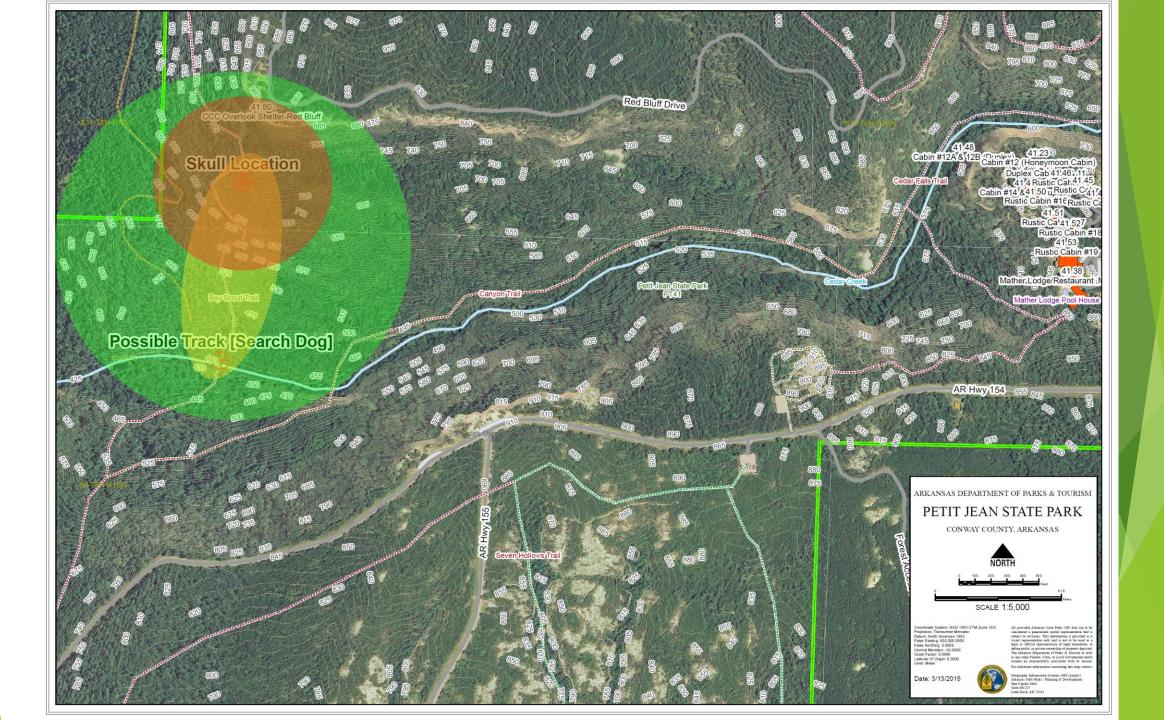


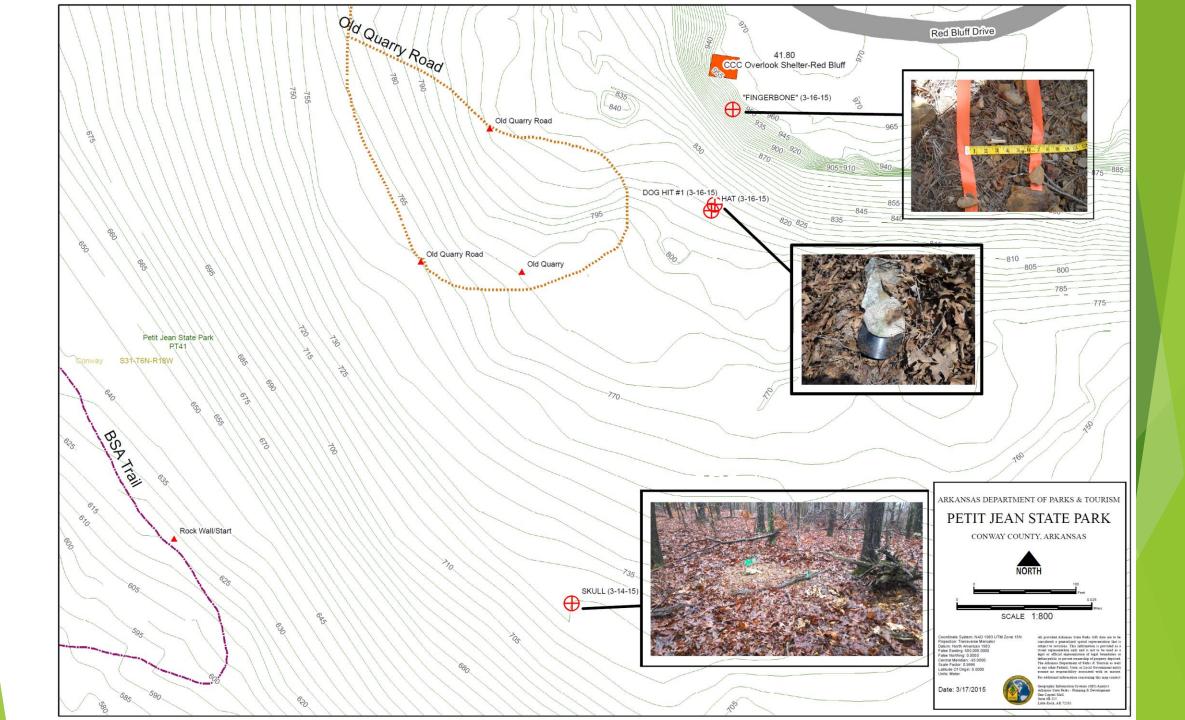
Trailhead

Example: Wildland Search and Rescue

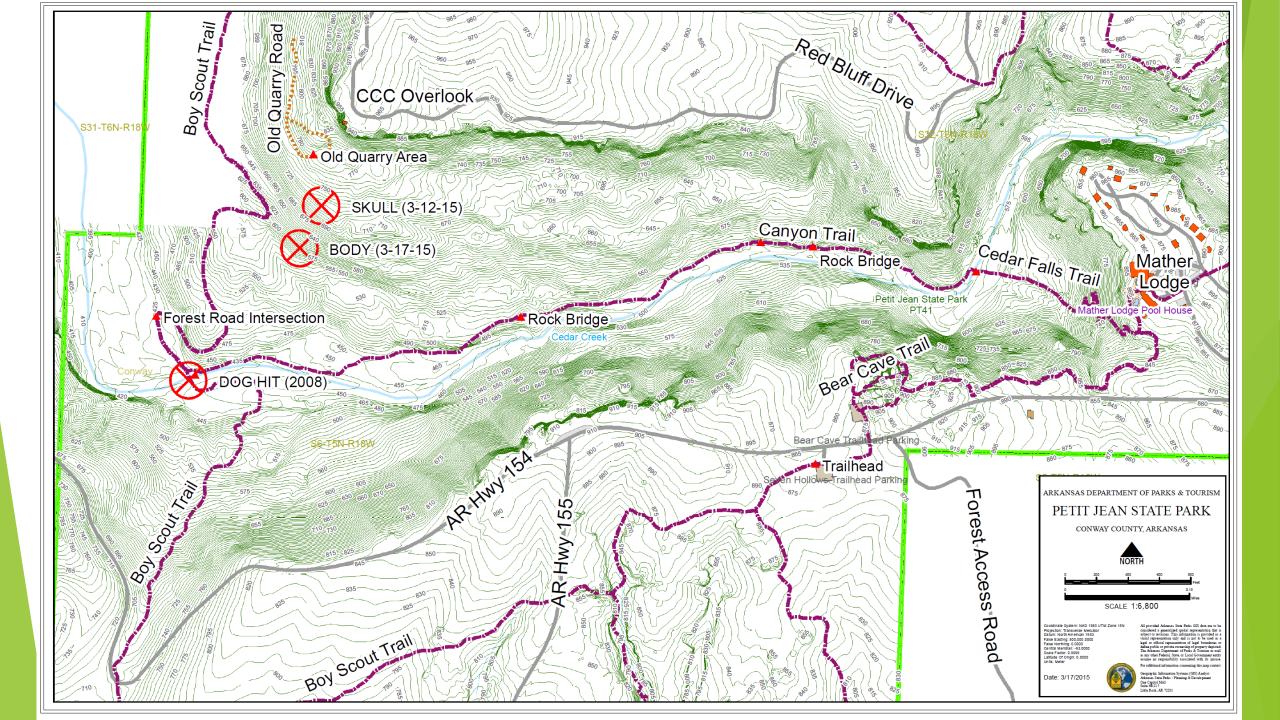


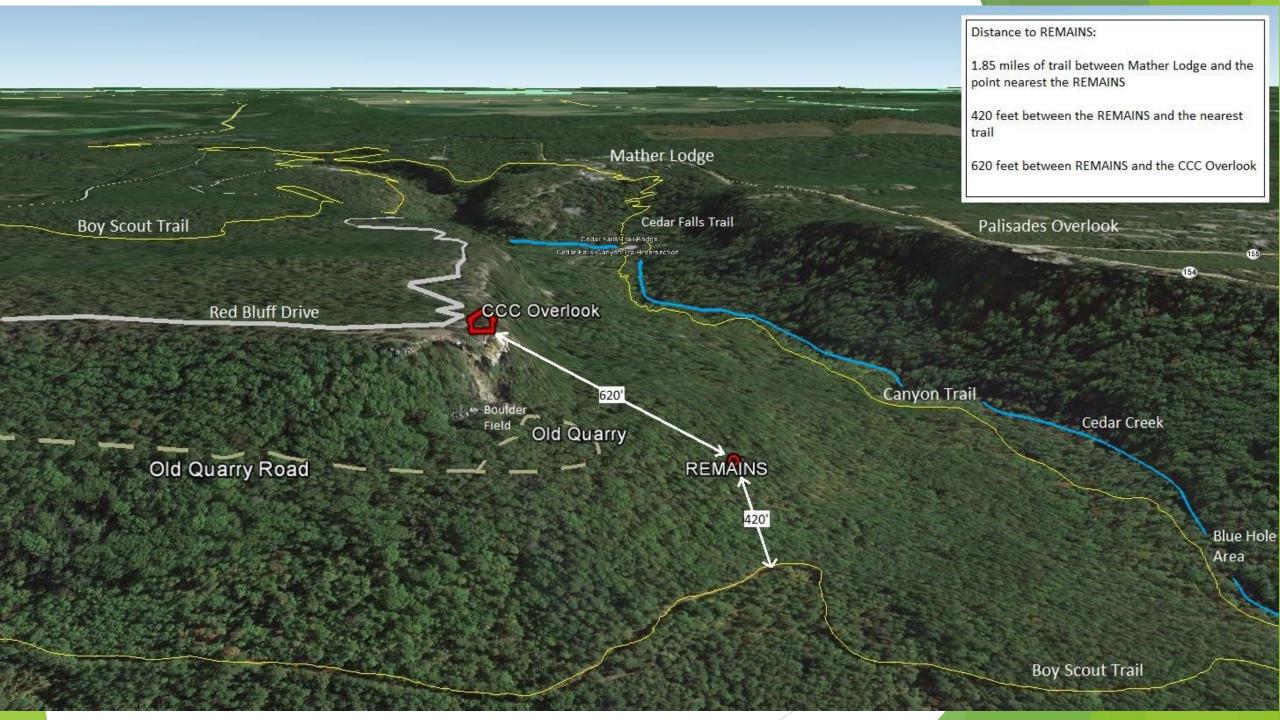












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Questions? Comments?