Outdoor Recreation accounted for 2.0% ($373.7 billion) of Gross Domestic Product (GDP) in 2016.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Outdoor Recreation Satellite Account
Gross Output for Selected Conventional Outdoor Recreation Activities (2016)

- **Motorized Vehicles**: $59.4 billion
- **Boating/Fishing**:
- **Hunting/Shotting/Trapping**:
- **Equestrian**:
- **Other Conventional Outdoor Recreation Activities**:

(Billions of current dollars)
BLM National Recreation Highlights

Over 62 million visits to public lands

Based on Fiscal Year 2015 statistics
5.6 million people visited BLM lands in Arizona in Fiscal Year 2017.

Source: BLM’s Recreation Management Information System
Enhance and expand access to public lands for recreational opportunities

Sources: Secretarial Order No. 3356 Hunting, Fishing, Recreational Shooting, and Wildlife Conservation Opportunities and Coordination with States, Tribes, and Territories; Executive Order 13443 Facilitation of Hunting Heritage and Wildlife Conservation (2007)
Five Travel Plans Underway

News Release
Kingman Field Office, Arizona
Sept. 20, 2017
Contact: Adam Eggers (602) 417-9499

Public invited to open houses for development of Kingman Travel Management Plan

KINGMAN, Ariz. – The Bureau of Land Management, Kingman Field Office - invites the public participation in the development of the KFO Travel Management Plan and Environmental Assessment.

PHOENIX – The Bureau of Land Management (BLM), Lower Sonoran Field Office will hold two public meetings in mid April to gather public input on the draft Buckeye Hills Travel Management Plan and Environmental Assessment. The documents have been released for public view and input.

The first meeting will be held April 19, from 6 p.m. to 8 p.m., at the Buckeye Community Center located at 201 F. Centre Ave., in Buckeye, Ariz. The second meeting will be held April 19, from 6 p.m. to 8 p.m., at the Copper Sky Recreation Complex located at 4401N W. Martin Luther King Jr. Blvd., in Goodyear, Ariz.

BLM INVITES PUBLIC TO DISCUSS TRAVEL MANAGEMENT PLAN FOR GRAHAM, GREENLEE, AND COCHISE COUNTIES

SAFFORD, Ariz. – The Bureau of Land Management (BLM), Safford Field Office invites the public to participate in the development of a Travel Management Plan (TMP). Public meetings are scheduled for Sept. 26 and 27.

The plan covers the Gila-San Simon areas, along the U.S. Highway 70 from Tombstone/Morenci and south to the Interstate-10. The plan also covers Graham, Greenlee, and Cochise Counties.

TWO PUBLIC MEETINGS SCHEDULED FOR THE DRAFT BUCKEYE HILLS TRAVEL MANAGEMENT PLAN
Planning: Using Web Maps to Collaborate
Objective
By the end of this presentation, you will be able to describe the value of using interactive web maps to enable enhanced public participation and collaboration.
Roadmap

- Review limitations of using static maps in the public engagement process
- Examine Bureau of Land Management’s use of web maps in Arizona
- Share lessons learned
- Explore the next step: web maps within the ePlanning environment
Recall the last public meeting you participated in...
Advantages of Static Electronic or Printed Maps

- Provides useful visual context and perspective of the planning area
- Computer or smart device not necessary to view content
- Internet connection not necessary
Drawbacks of Static Electronic or Printed Maps

- Participant’s electronic data cannot be displayed
- **Hand drawn** routes on printed maps, using whatever features are displayed as a general guide, are often collected
- The map is not **interactive** (no toggling layers or using search)
- If new data are made available, the static map needs updating
- Requests to provide route inventory (or other data sets) are often addressed on a case-by-case basis
- When planning area is extremely large, dozens of maps need to be produced to clearly identify individual route segments and numbers
What has BLM been doing with web maps in Arizona?
What are web services, maps, and apps?

- **web service**: a geospatial layer or tool that has been published to ArcGIS Online (the cloud) or an ArcGIS Server for use in a web map or app.

- **web map**: displays spatial information through an interactive online map usually containing a basemap, a set of data layers, and tools to navigate such as pan and zoom.

- **web app**: features a web map and can offer various tools, such as organizational layouts and color schemes, editing and identify tools, side-by-side map viewers, and provides end users with the ability to add content (comments); web apps provide a pretty, functional, and user friendly wrapper around the web map.

Note: the comment period has ended. Please feel free to continue to use this application to review the route inventory.

The BLM Arizona - Kingman Field Office wants to hear from you regarding travel management in the Bagdad, Black Mountains, Carlin Mountains, Crozier, Goodwilla Mesa, Hualapai Mountains, Music Mountains, Passohi Mountains and White Hills travel management areas. We are kicking off the process by posting our field-verified route inventory data online for review and comment. We want to know which routes and/or areas are important, for what manner of access, and why.

This interactive map is designed to assist users in locating and identifying routes of interest for comment.

Please zoom in to view the route inventory.

Click here to view an explanation for the widgets (tool icons) used within this mapping application.

To get back to the BLM ePlanning Kingman Field Office Travel Management Plan (D00-BLM-AZ-2010-2017-0040-EA) page, click here.

For additional questions please contact the Kingman Field Office at (928) 718-3700.
Arizona Travel Management Plan (TMP) Web Apps

- Lake Havasu Field Office (Bouse & Cactus Plain - *not public facing*)
Arizona Travel Management Plan (TMP) Web Apps

- **Lake Havasu Field Office** *(Bouse & Cactus Plain - not public facing)*
- **Kingman Field Office**
- **Safford Field Office** *(Gila-San Simon)*
- **Yuma Field Office** *(Lower Colorado River)*
- **Lower Sonoran Field Office** *(Buckeye Hills)*
Key Benefits

● Allows users to upload and display their route data, providing quick visual comparison with BLM’s route inventory

● Flexibility to search using a text field

● Flexibility to view different layers anytime

● Ability to switch basemap (e.g. topo to aerial imagery)
Key Benefits - continued

- For users, no GIS software is needed: cloud-based web apps run using any browser
- Displays selected national BLM data sets, enabling simplified updates
- Allows the user to print a customized map
Drawbacks

- Requires a connected computer or smart device
- Online tools and layout, while clean and simple, may present a technology barrier
- Information security and privacy concerns must be addressed because Personally Identifiable Information (PII) is collected when a comment is submitted
What did we learn?
Analytics Indicate Web Apps Are Being Used

Usage Time Series

Kingman Field Office Web App: 880 total views
Analytics Indicate Web Apps Are Being Used

Usage Time Series

Yuma Field Office Web App: 535 total views
Analytics Indicate Web Apps Are Being Used

Safford Field Office Web App: 381 total views
Summary of What We Learned

- Many members of the public have expressed satisfaction with the web app and encouraged other offices to use similar tools.
- The public has requested to have access to these all the time, not just during planning phases. The public is now using these to communicate with BLM regarding other projects and topics.
- Numerous interested parties utilized the route data upload tool to compare their route data and provide informed comments.
- To date, over 1700 visits to Arizona’s web apps have been recorded.
What’s Next?
Background: the Task

- Determined the **common business needs** of BLM field offices regarding webmap tools to support TMPs.
- Review system **policies** and capabilities to **allow the public to contribute data** through web map edits.
- Develop a **national E-solution** for public solicitation of comments which meets the business needs for each step of the Travel & Transportation Management (TTM) planning process.
Solution: ePlanning (EPL) Comment Map Tool

A national interactive mapping tool design to assist offices with the solicitation of public comments within the ePlanning environment.
Status

The tool exists within the ePlanning platform. Development continues to support TMPs. Currently available as a (pilot) for Route Inventory and Scoping phases of TTM planning.

- Additional phases may be included in the pilot before the platform becomes available to all field offices
- **Comment Reports:** pdf portfolio, spreadsheet, .gdb
Benefits: BLM-wide

- National geospatial planning tool **supported and maintained** by the ePlanning Technical Team.
- Uniform Look and Feel providing a consistent end user experience. **Goal**: Simple design + simple workflows = simple navigation.
- Personal Identifiable Information (PII) is collected and managed within the ePlanning Platform.
- All-in-One resource for project information, project review, and public input.
Benefits: Local Office Project Team

- Project Maps can be created and published by local project office. Fully configurable layout providing customized display of project data.
- Multiple interactive Web Maps can be displayed within the project page
Benefits: Project Team/ Public

Ability to **link** to additional content such as planning information, websites, and education media.
Benefits: Public (end user)

- Ability for end user to print a customized map of the current view. (including markers)
- Ability for end user to easily comment on specific route or area of interest
- Ability to draw and submit points, lines, or polygons as part of a comment.
- End user can upload files such as photos, or spatial data for inclusion in comment.
Benefits: Public (continued)

- Ability for end user to download or print a PDF submission confirmation.

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ePlanning Project Page Content

Comment Maps

Map Name
Dinosaur North Travel Management Area Routes

Release Date
04/03/2018

Public Comment Period
Open 04/03/2018 - 05/03/2018

Comment on Map >>
Key Takeaway

By utilizing web apps and web maps, the BLM increases transparency, streamlines the process, and the public is provided with tools on an interactive geospatial platform to provide meaningful and specific comments.
Web App Resources

Consult with your organization’s Geographic Information Systems (GIS) Specialist(s) first to learn more about your organization’s options. Below are some links to learn more about web apps and web maps:

- How to make a web app using Web AppBuilder for ArcGIS?
- What is an ArcGIS web map?

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