

https://data.fs.usda.gov/geodata/ Enterprise Data Warehouse (E... USDA Forest Service FSGeo... x

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USDA United States Department of Agriculture Forest Service

FSGeodata Clearinghouse

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Enterprise Data

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- ▶ [Data Extract Tool](#)
- ▶ [Map Services](#)

Maps

- ▶ [FSTopo](#)
- ▶ [Standard Map Products](#)

FSGeodata Clearinghouse

The USDA Forest Service Geodata Clearinghouse is an online collection of digital data related to forest resources. Through the Clearinghouse you can find datasets related to forests and grasslands, including boundaries and ownership, natural resources, roads and trails, as well as datasets related to State and private forested areas, including insect and disease threat and surface water importance. You can also find downloadable map products, raster data, and links to other sources of forest resource information.

Data Flow: From Transactional to Discoverable

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Download National Datasets

Data collected and managed by Forest Service programs is available in a map service and two downloadable file formats – in a shape file and an ESRI file geodatabase. Metadata is available that describes the content, source, and currency of the data. You can filter the list by the topic categories in the menu at the left to help you find information you are interested in. You can view the feature classes in a single dataset by clicking on the name of the parent dataset at the bottom of the abstract.

- ▶ [More FS map services are available in ArcGIS Online](#)
- ▶ [Topic Category Descriptions](#)

Search by keyword:

| Feature Classes | Metadata | Abstract |
|---|--------------------------------------|---|
| Activity Silviculture Timber Stand Improvement ESRI geodatabase (170MB) shape file (305MB) Date of last refresh: May 19, 2017 | metadata map service | The SilvTSI (Silviculture Timber Stand Improvement) feature class represents activities associated with the following performance measure: Forest Vegetation Improved (Release, Weeding, and Cleaning, Precommercial Thinning, Pruning and Fertilization). The Activities data set portrays the areas where activities are accomplished... [see more] <div style="text-align: right; font-size: small;">parent dataset: Activities</div> |
| Activity Silviculture Reforestation ESRI geodatabase (236MB) shape file (415MB) Date of last refresh: May 19, 2017 | metadata map service | The SilvReforestation feature class represents activities associated with the following performance measure: Forest Vegetation Establishment (Planting, Seeding, Site Preparation for Natural Regeneration and Certification of Natural Regeneration without Site Preparation). The Activities data set portrays the areas where... [see more] <div style="text-align: right; font-size: small;">parent dataset: Activities</div> |
| Hazardous Fuel Treatment Reduction: Line ESRI geodatabase (205KB) shape file (152KB) Date of last refresh: May 19, 2017 | metadata map service | The Forest Service's Natural Resource Manager (NRM) Forest Activity Tracking System (FACTS) is the agency standard for managing information about activities related to fire/fuels, silviculture, and invasive species. FACTS is an activity tracking application for all levels of the Forest Service. This layer represents activities... [see more] |

https://data.fs.usda.gov/geodata/webapps/EDW_Da... Enterprise Data Warehouse (E... USDA Forest Service FSGeodat... Data Extract Tool

File Edit View Favorites Tools Help

USDA Data Extract Tool Extract U.S. Forest Service Enterprise Data

U.S. Forest Service Data Extract tool

This tool allows users to download published U.S. Forest Service data by National Forest or by a user specified area of interest. Output formats include file geodatabase (.gdb) or shapefile. The viewer creates a zip file downloaded to a user-specified location. Keep in mind that copies of corporate data are snapshots in time, so frequent replacement of downloads are recommended to ensure data is current.

Changes Made to Downloaded Data. The FS is not responsible for any changes or alterations made to downloaded data. We respectfully request that the responsible party is clearly documented if altered downloads are made available to others in any forum. FS published data is intended for viewing and analysis only.

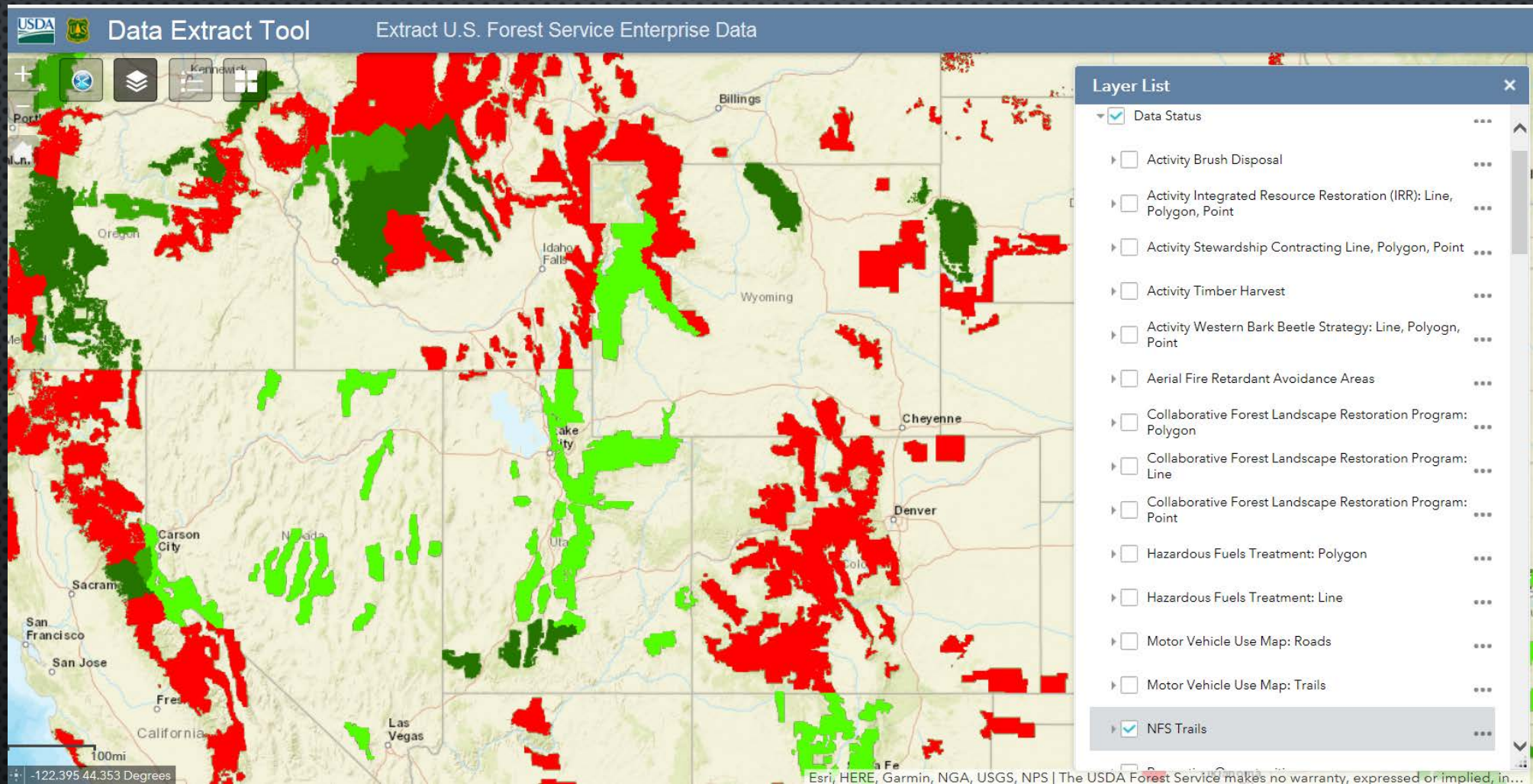
For questions or assistance regarding the U.S. Forest Service Data Extract Tool please contact:
data@fs.fed.us

Disclaimer: Not all layers displayed in this map are published by the Forest Service. The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be: developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify, or replace, GIS products without notification.

Continue

Pulls from EDW Featureclasses, so updated nightly (for most datasets)

National Forest System Trails Data Status



Pulls from EDW Featureclasses, so updated nightly (for most datasets)

The screenshot displays the ArcGIS Desktop interface. At the top, a map shows a geographic area with various colored points and lines. Below the map, the 'Item Description - S_USA.Activity_HazFuelTrt_PL' window is open, showing metadata for a specific feature class. The metadata includes scale information, ArcGIS Metadata sections for Topics and Keywords, and a Citation section with a publication date and time. To the right, the 'Catalog' pane shows a tree view of feature classes, with 'S_USA.Activity_HazFuelTrt_PL' selected.

Item Description - S_USA.Activity_HazFuelTrt_PL

Description | Preview

Print Validate Export

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE environment

* CONTENT TYPE Downloadable Data

THEME KEYWORDS Hazard Fuel Reduction, US Forest Service, Ecosystem Restoration, Fuel Treatment, Vegetation Management

THEME KEYWORDS environment

THESAURUS

TITLE ISO 19115 Topic Categories

Hide Thesaurus

Hide Topics and Keywords

Citation

TITLE S_USA.Activity_HazFuelTrt_PL
PUBLICATION DATE 2017-05-23 03:42:48

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Location: S_USA.Activity_HazFuelTrt_PL

- edw_sde_default_as_myself
 - S_EDW_STAGE.WRU_Components
 - S_R01.Hydrography
 - S_R02.Hydrography
 - S_R03.Hydrography
 - S_R04.Hydrography
 - S_R05.Hydrography
 - S_R06.Hydrography
 - S_R06.HydrographyPrj
 - S_R08.Hydrography
 - S_R09.Hydrography
 - S_R10.Hydrography
 - S_USA.Activities
 - S_USA.Activity_HazFuelTrt_LN
 - S_USA.Activity_HazFuelTrt_PL**
 - S_USA.Activity_SilvReforestation
 - S_USA.Activity_SilvTSI
 - S_USA.Activity_TimberHarvest
 - S_USA.ActivityInitiatives
 - S_USA.ActivityTrustFund
 - S_USA.Administration
 - S_USA.Administration_nonFS
 - S_USA.Cultural_nonFS
 - S_USA.EcomapSections_2007
 - S_USA.EcomapSubSections_2007
 - S_USA.Fish_and_Wildlife
 - S_USA.Geology
 - S_USA.Geopolitical
 - S_USA.HealthyForestRestorationAct
 - S_USA.InitiativeBoundary
 - S_USA.InsectandDiseaseSurvey
 - S_USA.InvasiveSpecies
 - S_USA.Land
 - S_USA.NationalWetlandsInventory
 - S_USA.NRIS_Survey

EDW Featureclasses show publication date and time in Item Description

Enterprise Data Warehouse (E... | USDA Forest Service FSGeodat... | Data Extract Tool | Hazardous Fuel Treatment ...

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USDA U.S. Forest Service - Geospatial Data Discovery

Fuels My Data Sign In

Overview Data Houston Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS us

Hazardous Fuel Treatment Reduction: Line (Feature Layer)

Favorite Download Data APIs

Custom License 5/3/2017 Spatial Dataset 97 Rows

The Forest Service's Natural Resource Manager (NRM) Forest Activity Tracking System (FACTS) is the agency standard for managing information about activities related to fire/fuels, silviculture, and invasive species. FACTS is an activity tracking application for all levels of the Forest Service. The

[More](#)

About

[Forest Management - Open Data](#)
 Shared By: USFSEnterpriseContent
 Data Source: apps.fs.usda.gov

[View Metadata](#)
[Create Webmap](#)
[Create a Story Map](#)

Attributes

Chart Map Visualization

| | | | | |
|---------------------------------------|--|----------------------------------|-----------------------------------|--------------------------------|
| ACCOMPLISHED_UNDER_HFI Text | ACCOMPLISHED_UNDER_HFRA Text | ACCURACY Number | ACTIVITY Text | ACTIVITY_CN Text |
| ACTIVITY_CODE Text | ACTIVITY_SUB_UNIT_NAME Text | ACTIVITY_UNIT_CN Text | ACTIVITY_UNIT_NAME Text | |
| ADMIN_DISTRICT_CODE Text | ADMIN_FOREST_CODE Text | ADMIN_REGION_CODE Text | ASPECT Text | ASU_NBR_UNITS Number |

Dates here show posting date, not currency of the Spatial Dataset



Geospatial Data Discovery

for the greatest good...



The U.S. Forest Service has configured this open data site to help our partners and the public discover geospatial data published by the Agency. Use it together with your data to create maps, apps and other information products.

ARCGIS OPEN DATA

PRESENTATION FOR R2 RI VIRTUAL MEETING

TUESDAY, MAY 23, 2017

OPEN DATA – WHAT IS IT?

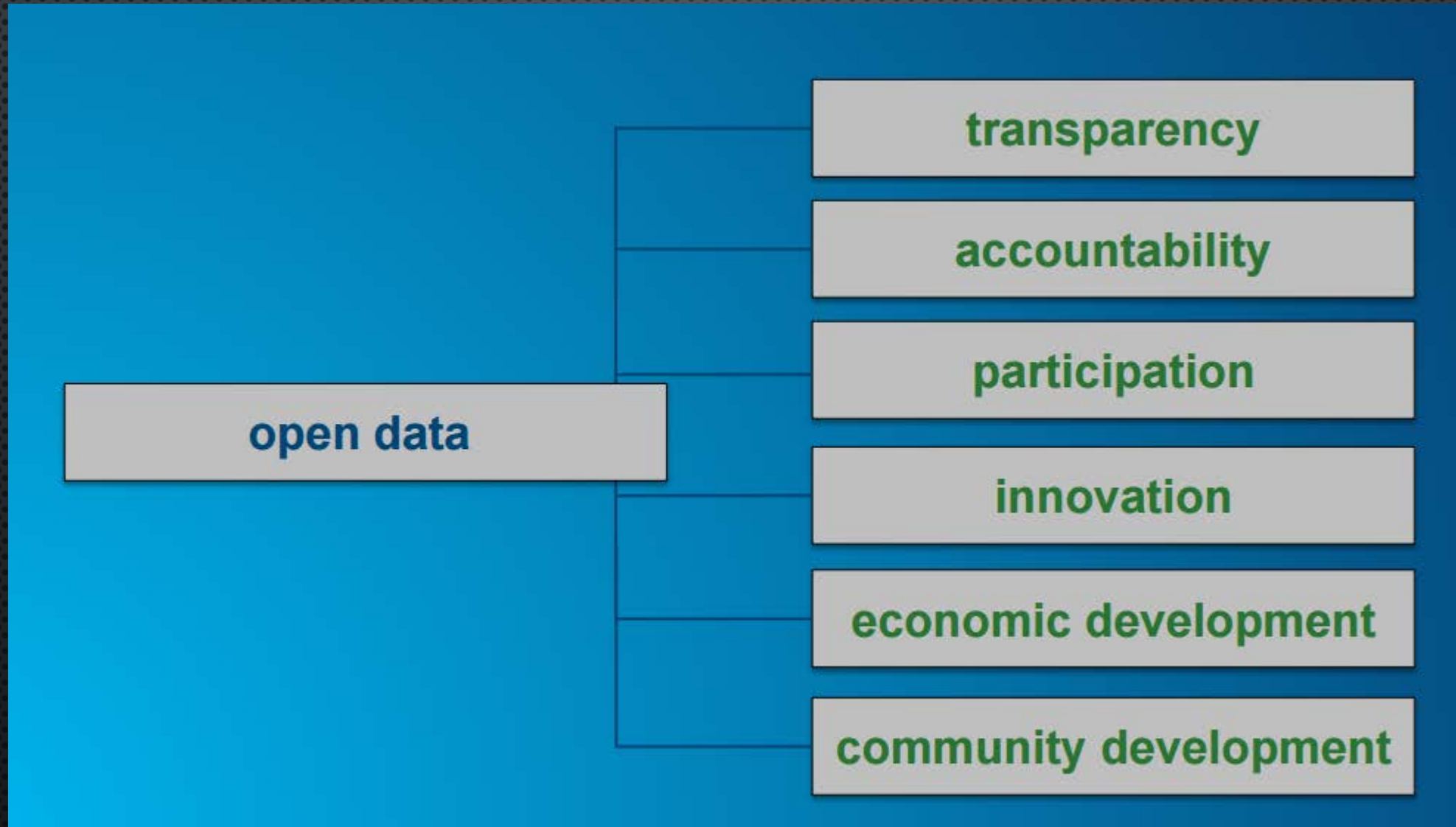
- THE TERM “OPEN DATA” REPRESENTS THE IDEA THAT DATA SHOULD BE AVAILABLE TO EVERYONE, WHILE ESRI’S ARCGIS OPEN DATA IS A SOFTWARE PLATFORM THAT SUPPORTS AND ENABLES OPEN DATA CAPABILITIES. THE FOREST SERVICE HAS A NUMBER OF ONGOING EFFORTS TO SUPPORT OPEN DATA INITIATIVES AND THE IMPLEMENTATION OF ESRI’S ARCGIS OPEN DATA PLATFORM COMPLIMENTS AND BUILDS UPON THESE EXISTING EFFORTS.
- “OPEN DATA IS DATA THAT CAN BE FREELY USED, RE-USED AND REDISTRIBUTED BY ANYONE - SUBJECT ONLY, AT MOST, TO THE REQUIREMENT TO ATTRIBUTE AND SHAREALIKE.” – [OPEN DATA HANDBOOK](#)



OPEN DATA – WHAT IS IT?

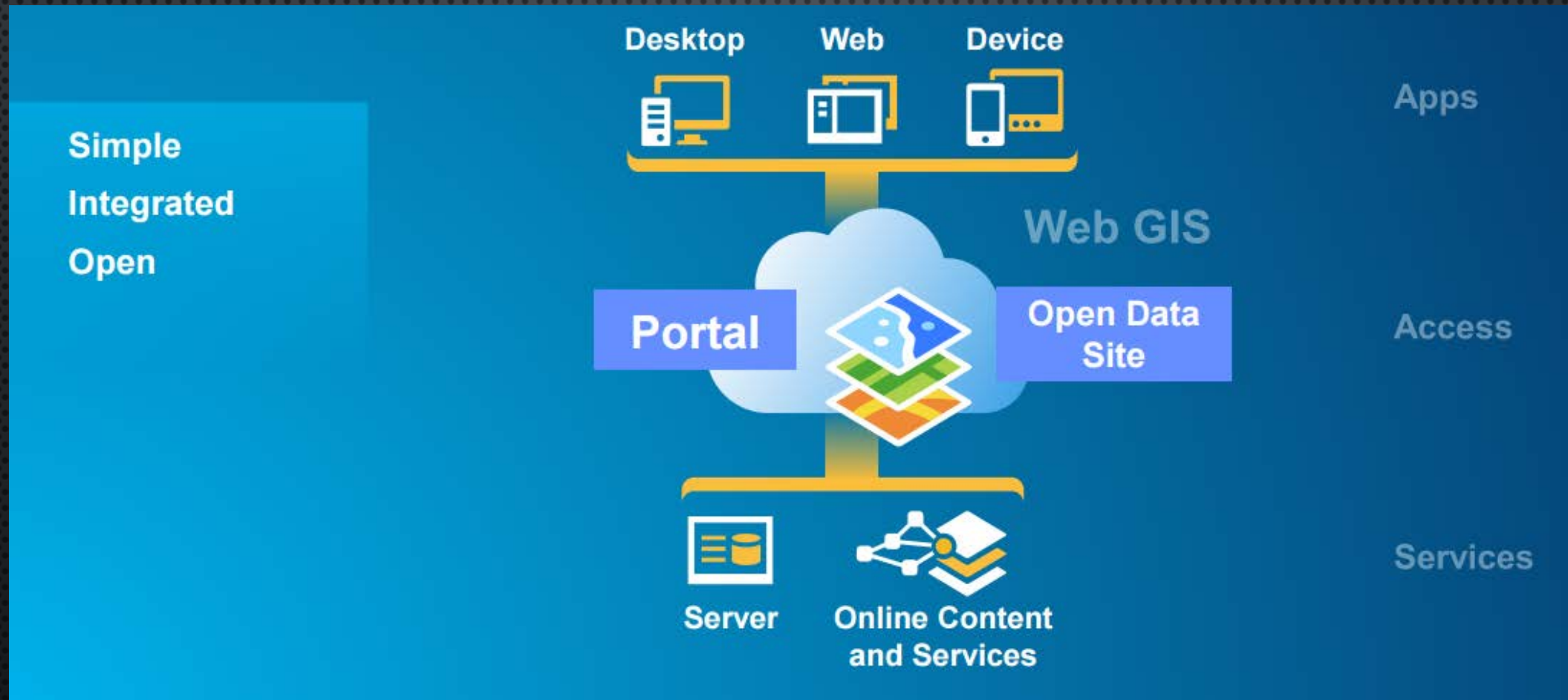
- ARCGIS OPEN DATA IS A COMMERCIAL OFF THE SHELF (COTS) SOLUTION THAT ALLOWS THE USFS TO SHARE OUR NATIONAL LEVEL AUTHORITATIVE DATASETS WITH THE PUBLIC. THESE DATASETS HAVE BEEN THROUGH A GOVERNANCE REVIEW AND SUBSEQUENT PROGRAMMATIC APPROVAL PROCESS FOR PUBLIC DISSEMINATION.
- THE GOAL OF FOREST SERVICE OPEN DATA INITIATIVES IS TO MAKE AUTHORITATIVE AGENCY DATA HIGHLY AVAILABLE AND DISCOVERABLE BOTH WITHIN THE AGENCY AND TO OUR PARTNERS AND THE PUBLIC. EXISTING EFFORTS SUPPORTING OPEN DATA INITIATIVES INCLUDE:
 - PUBLISHING AUTHORITATIVE AGENCY DATA IN THE ENTERPRISE DATA WAREHOUSE
 - REGISTERING AUTHORITATIVE AGENCY DATA IN DATA.GOV
 - REGISTERING AGENCY DATA IN AGOL
 - MAKING AUTHORITATIVE AGENCY DATA AVAILABLE IN THE FSGEODATACLEARINGHOUSE
- ALL OF THE ABOVE DATA SITES POINT TOWARDS THE SAME AUTHORITATIVE AGENCY DATA IN THE EDW AND THE IMPLEMENTATION OF ESRI'S ARCGIS OPEN DATA WILL HELP US INTEGRATE AND STREAMLINE THE CAPABILITIES PROVIDED BY THESE EXISTING EFFORTS. FOR EXAMPLE, THE IMPLEMENTATION OF ARCGIS OPEN DATA WILL AUTOMATE OUR PUBLICATION TO DATA.GOV AND MAY EVENTUALLY REPLACE SOME OF THE CAPABILITY PROVIDED BY THE FSGEOSPATIAL DATA CLEARINGHOUSE.

OPEN DATA – WHAT IS IT?



OPEN DATA – WHAT IS IT?

- ARCGIS OPEN DATA IS PART OF THE ARCGIS PLATFORM
 - PROVIDING OPEN ACCESS TO YOUR PUBLISHED DATA



OPEN DATA – WHAT IS IT?

- ARCGIS OPEN DATA IS ACCESSIBLE

- USERS CAN EASILY ACCESS THE DATA THEY WANT
- USERS CAN CONNECT WITH THE DATA AT THE SOURCE
- USERS KNOW THE LICENSING INFORMATION

- ARCGIS OPEN DATA IS DISCOVERABLE

- USERS CAN VIEW ALL DATASETS ON A SITE
- USERS CAN SEARCH FOR SPECIFIC DATASETS
- USERS CAN SEE SUGGESTED RELATED DATASETS

- ARCGIS OPEN DATA IS EXPLORABLE

- USERS CAN FILTER AND SORT DATA
- USERS CAN SEARCH BY LOCATION
- USERS CAN VISUALIZE DATA IN DIFFERENT SMART MAPPING AND CHART OPTIONS

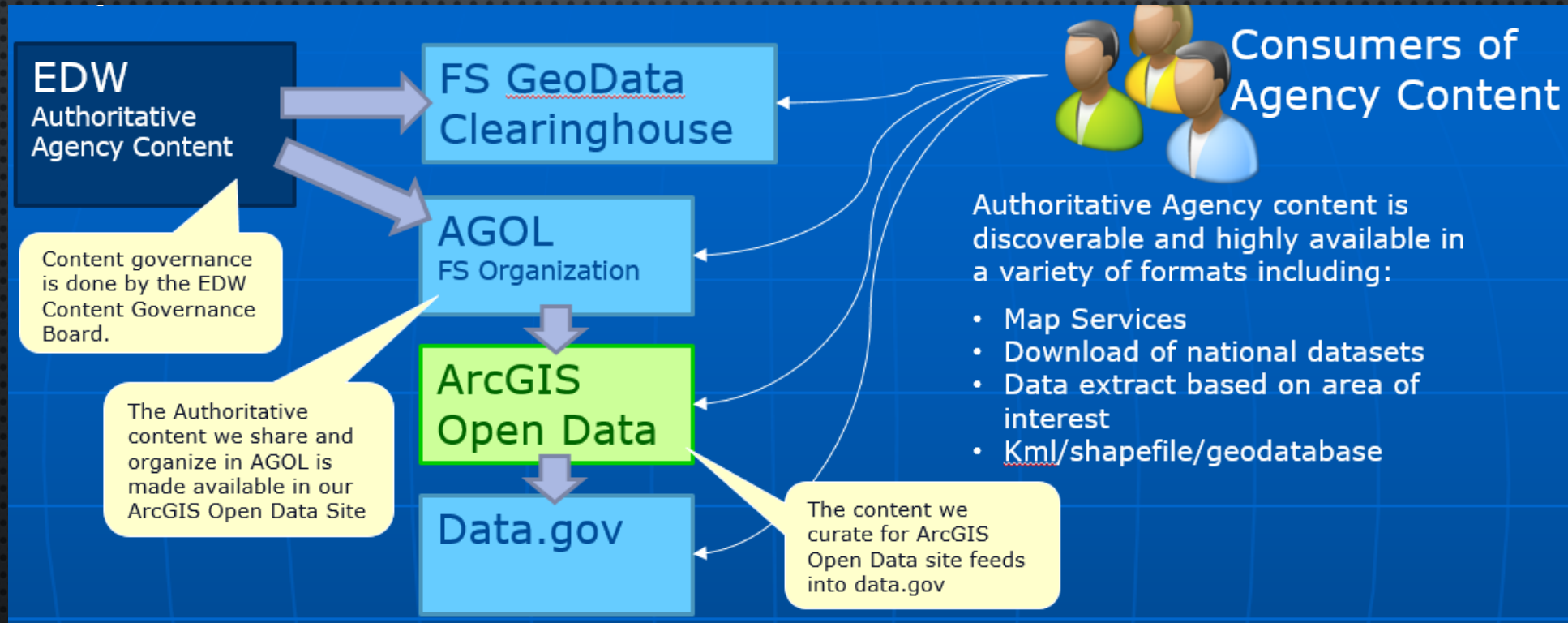
- ARCGIS OPEN DATA IS COLLABORATIVE

- USERS CAN DOWNLOAD DATA IN MULTIPLE OPEN FORMATS
 - SPREADSHEET (CSV)
 - KML
 - SHAPEFILE
 - APIS: GEOJSON, GEOSERVICE, OGC WMS
- USERS CAN SHARE AND EMBED DATASETS
- USERS CAN ADD DATA TO ARCMAP OR ARCGIS ONLINE
- DATA CAN BE LINKED WITH CKAN AND DATA.GOV



OPEN DATA – WHAT IS IT?

- THE ROLE OF ARCGIS OPEN DATA IN AGENCY OPEN DATA INITIATIVES
 - MAKING ENTERPRISE CONTENT HIGHLY AVAILABLE TO THE PUBLIC



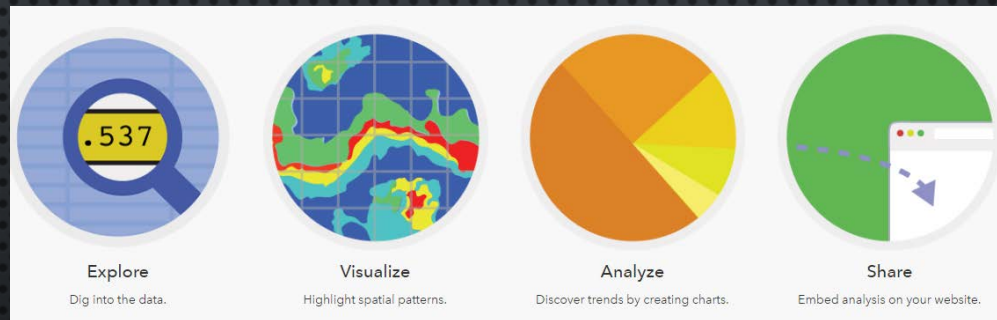
WHY OPEN DATA IN THE USFS?

- 2013 EXECUTIVE ORDER -- *MAKING OPEN AND MACHINE READABLE THE NEW DEFAULT FOR GOVERNMENT INFORMATION*. WITHIN THE USFS, WE HAVE THE TOOLS, TECHNOLOGY & PROCESSES TO MAKE OPEN DATA HAPPEN AND AS SUCH, WE SHOULD BE MAKING OUR BEST EFFORT TO BE IN COMPLIANCE WITH THE EXECUTIVE ORDER.
 - ALLOWS THE USFS TO EASILY SHARE OUR AUTHORITATIVE ENTERPRISE DATA WAREHOUSE (EDW) GEOSPATIAL & NON-GEOSPATIAL ASSETS WITH OUR PARTNERS & THE PUBLIC
 - OPEN DATA INCREASES CIVIC ENGAGEMENT BY ENABLING GOVERNMENT AGENCIES, CITIZENS, BUSINESSES, AND OTHER COMMUNITY ORGANIZATIONS TO SHARE DATA
 - OPEN DATA ASSETS ARE SEAMLESSLY INTEGRATED WITH THE USFS GEOSPATIAL PLATFORM & DATA.GOV
 - THEMATIC CONTENT ORGANIZATION FACILITATES MORE INTUITIVE CONTENT SEARCH AND DISCOVERY
 - MISSION EFFICIENCY – LEVERAGING TECHNOLOGY TO MAKE AGENCY DATA EASILY DISCOVERABLE, CONSUMABLE AND USEABLE DRIVES OPERATIONAL EFFICIENCY (E.G., SELF SERVICE DATA CALLS)
 - ELIMINATES THE DUPLICATION OF DATA AND DATA SHARING PROCESSES, THEREBY REDUCING THE AMOUNT OF TIME AND NUMBER OF RESOURCES REQUIRED TO MAINTAIN A SEPARATE CUSTOM SITE AND ADDITIONAL ZIPPED DOWNLOAD FILES

DEMONSTRATION

ADDITIONAL RESOURCES

- USFS OPEN DATA SITE - [HTTPS://ENTERPRISECONTENT-USFS.OPENDATA.ARCGIS.COM/](https://enterprisecontent-usfs.opendata.arcgis.com/)
- ARCGIS OPEN DATA - [HTTP://OPENDATA.ARCGIS.COM/ABOUT](http://opendata.arcgis.com/about)
- OPEN DATA FAQ'S - [HTTP://DOC.ARCGIS.COM/EN/OPEN-DATA/PROVIDER/FAQ.HTM#ANCHOR3](http://doc.arcgis.com/en/open-data/provider/faq.htm#anchor3)





The U.S. Forest Service has configured this open data site to help our partners and the public discover geospatial data published by the Agency. Use it together with your data to create maps, apps and other information products.



Lands & Realty



Facilities & Infrastructure



Administrative Boundaries



Recreation



Transportation



Fire & Aviation



Forest Management



Ecology



Vegetation



Hydrography

QUESTIONS???

- FEEL FREE TO CONTACT ME WITH ANY FUTURE QUESTIONS
- ROBERT AIKEN 303-275-5200
RAIKEN@FS.FED.US



Interactive Visitor Map

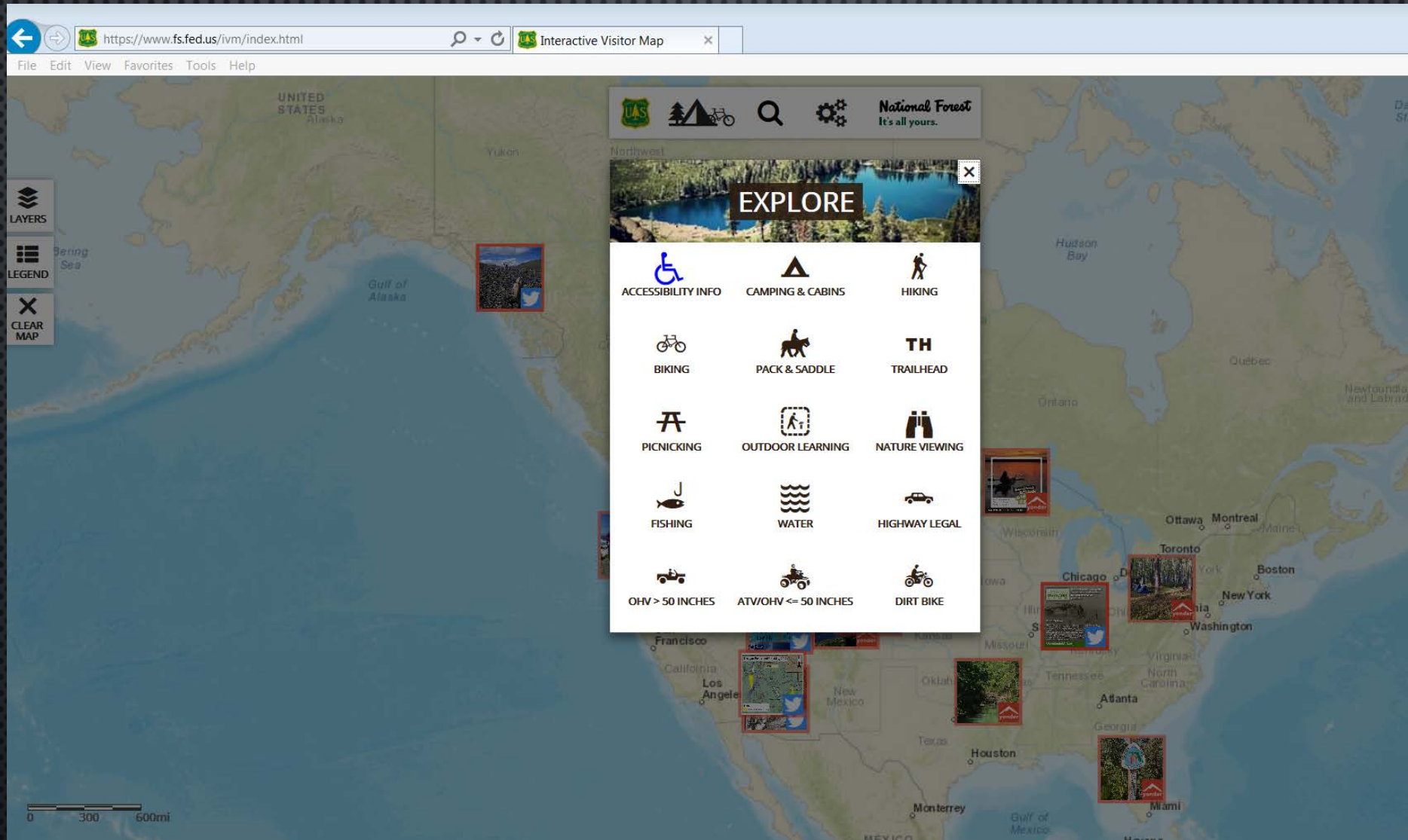
The screenshot shows the U.S. Forest Service website interface. At the top, the browser address bar displays <https://www.fs.fed.us/>. The page header includes the USDA and U.S. Forest Service logos, the tagline "Caring for the land and serving people", and the text "United States Department of Agriculture". A search bar with the placeholder "Enter Search Words" and a "Search" button is located in the top right. A navigation menu below the header contains the following items: "Visit Us", "Managing the Land", "Learn", "Science & Technology", "Working with Us", and "About the Agency".

The main content area features a large banner image of a forest. Overlaid on the banner is a text box with the title "From Trees to Paper – And the Many Benefits Our National Forests Provide". Below the title, it reads: "Our National Forests provide recreation, beautiful vistas to take-in nature and help keep our air and water clean. And they also provide many useful products, such as building materials, firewood and paper." To the right of the banner is a green sidebar titled "Find a Forest or Grassland". This sidebar contains two dropdown menus: "Select a State" with "-- All States --" and "Select a Forest or Grassland" with "-- Select One --". Below the dropdowns is a "Go" button. At the bottom of the sidebar, under "Stay Connected:", there are icons for Twitter, Facebook, YouTube, and Instagram, along with the logo for the National Forest Foundation.

Below the main banner, there are three smaller content blocks. The first is a news release titled "U.S. Forest Service Awards Grants to Expand and Accelerate Wood Energy and Wood Products Markets in 19 States", dated May 24, 2017. The second is a blog post titled "Meet Sam Wu", dated May 17, 2017. The third is a map of the United States with several red location markers across different states.

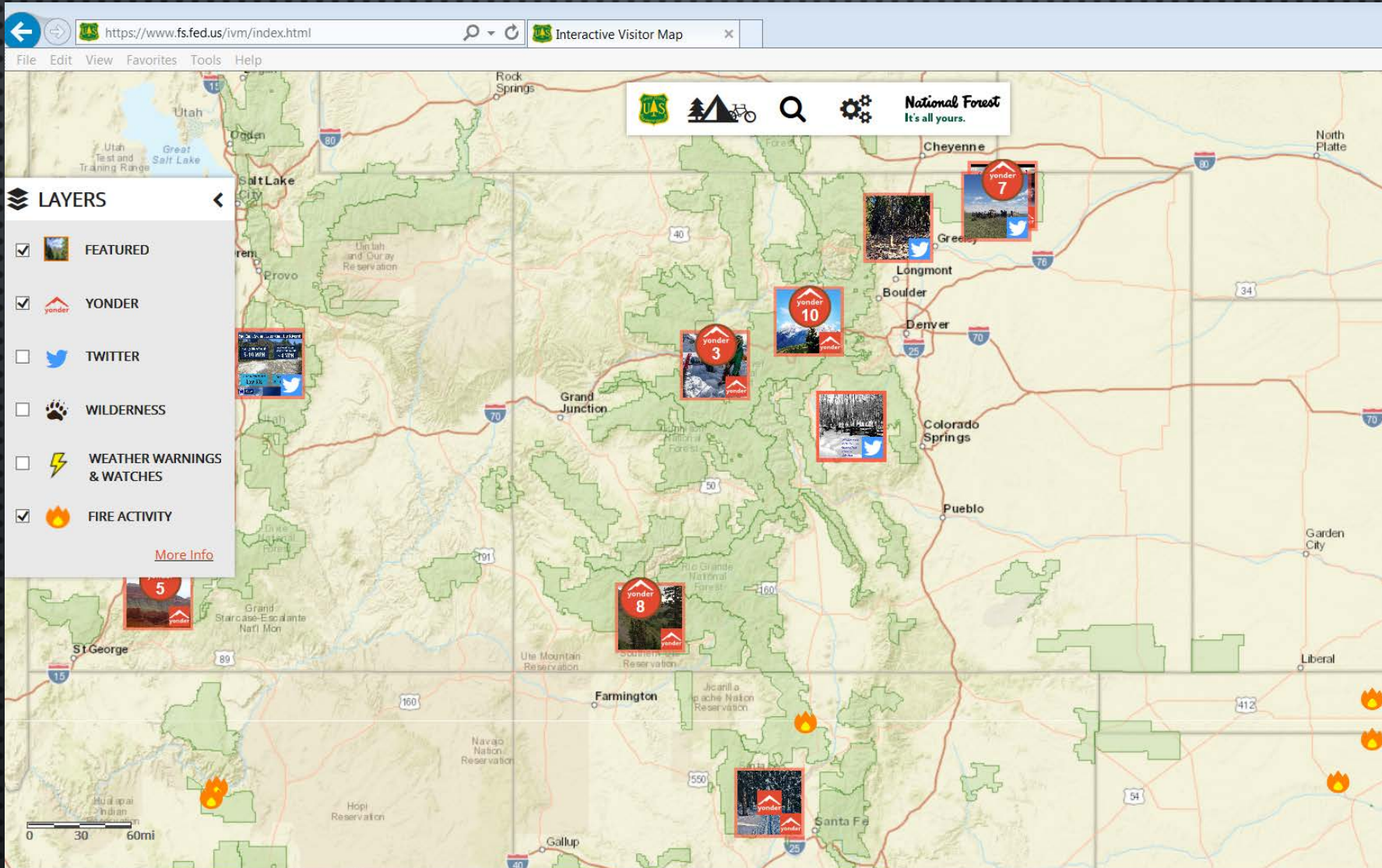
Pulls from EDW Featureclasses, so updated nightly (for most datasets)

Interactive Visitor Map



Pulls from EDW Featureclasses, so updated nightly (for most datasets)

Interactive Visitor Map



Pulls from EDW Featureclasses, so updated nightly (for most datasets)

Interactive Visitor Map

The screenshot displays a web browser window with the URL <https://www.fs.fed.us/ivm/index.html>. The browser's address bar and menu (File, Edit, View, Favorites, Tools, Help) are visible at the top. The main content is a topographic map of a National Forest area, featuring various trail markers and geographical labels such as Hill City, Oreville Campground, Black Elk Wilderness, and Iron Mountain. A central overlay menu titled "EXPLORE" is open, listing various recreational activities with corresponding icons:

- ACCESSIBILITY INFO
- CAMPING & CABINS
- HIKING
- BIKING
- PACK & SADDLE
- TH TRAILHEAD
- PICNICKING
- OUTDOOR LEARNING
- NATURE VIEWING
- FISHING
- WATER
- HIGHWAY LEGAL
- OHV > 50 INCHES
- ATV/OHV <= 50 INCHES
- DIRT BIKE

The map includes a scale bar at the bottom left and a legend on the left side with options for LAYERS, LEGEND, and CLEAR MAP. The National Forest logo and slogan "National Forest It's all yours." are located at the top right of the map area.

Trails Published at Three Possible Levels: Centerline, Basic, and Full Management