WEB MAPPING – AN INTRODUCTION TO ARCGIS ONLINE

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WORKSHOP OBJECTIVE

• To provide a basic understanding of the capabilities of ArcGIS Online so that you can determine if it is useful for the work you do.
WHAT IS ARCGIS ONLINE?

• A web-based collaborative platform hosted by Esri that allows you to use, create, manage, analyze, and share maps, apps, and data.
  • [http://arcgis.com](http://arcgis.com)
  • Released: late 2012
  • Quarterly update cycle
  • Continuing evolution from desktop to web GIS
  • U of I is afforded organizational access through our Statewide Esri GIS Software Site License
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<td>Ready to use maps &amp; data – Living Atlas</td>
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<td>Security/privacy/compliance</td>
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APPS

- Apps for the field: Take GIS into the field
- Apps for the office: Explore and analyze data in the office
- Apps for the community: Share information
- App builders: Build applications
APPS FOR THE FIELD

Collector for ArcGIS
Efficient, accurate data collection on smartphones or tablets replaces paper forms, streamlines record, and synchronizes devices.

Navigator for ArcGIS
Improve workforce reliability. Navigate directly to assets even when offline. Integrate seamlessly with Collector for ArcGIS and other apps to save time.

Operations Dashboard for ArcGIS
Get a real-time view and common operating picture. Add data feeds to events or daily operations. Integration with maps, charts, gauges, and histograms.

Explorer for ArcGIS
Access asset data, search for places and features, or sketch on the map. Highlight important aspects. Share useful maps with the public.

Workforce for ArcGIS
Staff and apps can work together. Sync with other apps to get assignments, navigate to them, and collect data in one workflow on one mobile device.

Survey123 for ArcGIS
Use a form-based survey interface in a lightweight, intuitive app. In just a few clicks you can collect, manage, and analyze survey results.
APPS FOR THE OFFICE

Map Viewer
Create beautiful maps you can embed in websites or add to apps. Use data-driven workflows, intelligent defaults, coordinated styling, and automated scale ranges.

Scene Viewer
View, create, and share 3D scenes in a browser. Add your own data and layers to basemaps and 3D maps. Display more data in pop-up windows and infographics.

ArcGIS Pro
The latest addition to ArcGIS Desktop. Create 2D and 3D maps. Edit and analyze data faster than ever using a new, high-performance 64-bit architecture.

ArcMap
Part of ArcGIS Desktop, ArcMap is an advanced cartographic authoring, data editing, spatial and imagery analysis, and workflow automation application.

ArcGIS Earth
This interactive globe lets you explore the world. Quickly display 3D and 2D map data, including GIS, and sketch place marks to easily understand spatial information.

ArcGIS Maps for Power BI
Microsoft Power BI users can tap into the power of geospatial analytics, and access new map themes, demographic data, and map visualizations inside Power BI.

ArcGIS Maps for Office
Microsoft Excel and PowerPoint users can use the power of maps to ask location-related questions of their data. Get new insights to make smarter decisions.

ArcGIS Business Analyst
Get location-based insight for market planning, site selection, and customer segmentation plus 15,000+ variables of market data for maps, analytics, and reports.
APPS FOR THE OFFICE

ArcGIS Community Analyst
See the impact of policy decisions to prioritize community projects or place new facilities. Use global data to create what-if scenarios and comparison reports.

GeoPlanner for ArcGIS
Use geodesign to manage data and workflows, create scenarios, assess plans, and prepare reports for land use, forestry management, or landscape architecture.

ArcGIS Maps for SharePoint
Turn lists or data into color-coded, point, clustered point, or heat maps. Enrich key business measures with demographic and lifestyle data from Esri.

Esri CityEngine
The advanced 3D city-design application for expanding, editing, and sharing 3D building models and massive urban environments.

ArcGIS Maps for Adobe Creative Cloud
Design and communications professionals can choose maps as vector or raster layers.

Drone2Map for ArcGIS
Streamline the creation of professional imagery products from drone-captured imagery for visualization and analysis in ArcGIS.

Insights for ArcGIS
Interactively explore and analyze your data—from ArcGIS sources, Excel, and CSV files—all in one experience.
APPS FOR THE COMMUNITY

1. Eiri Story Maps
   Tell stories that inform, engage, and inspire your audience. Combine web maps with narrative text, photos, and other media.

2. ArcGIS Open Data
   Share your authoritative information through public-facing websites where people can search and download the data they need in a variety of open formats.

3. Configurable Apps
   Choose from a comprehensive set of templates to quickly configure focused apps, for example for parcel editing or displaying social content.

4. Quick Report Template
   Create a citizen engagement apps that allows users to capture a observation and submit it to an o service.

5. Crowdsourcing Reporter
   Users can report problems or observations then track the status. They can also comment and vote on reports or observations submitted by other users.

6. Crowdsourcing Manager
   Review problems or observations submitted by users. Look for patterns and clusters, review problem details, update status, and assign responsibility.

7. Crowdsourcing Polling
   Solicit feedback on plans and proposals to gauge public sentiment. Users can comment, vote, and participate in open discussions.

8. Photo Survey
   Publish street-level photo collection and analysis focused property or to identify blight, damaged structures or construction activity.
AppStudio for ArcGIS
Convert maps into mobile apps for Android, iOS, Windows, OS X, and Linux. Publish apps using your own brand or share internally. No coding required.

Web AppBuilder for ArcGIS
Create HTML/JavaScript apps with ready-to-use widgets that run on any device. Customize the look with configurable themes. No coding required.

Configurable Apps
Choose from a comprehensive set of templates to quickly configure focused apps, for example for parcel editing or disseminating social content.

Esri Story Maps
Tell stories that inform, engage, and inspire your audience. Combine web maps with narrative text, photos, and other media.
APPS

• More information
  • http://www.arcgis.com/features/apps/
READY TO USE MAPS & DATA LAYERS

• Living Atlas of the World
  • Collection of geographic information from Esri and its partners
  • [https://livingatlas.arcgis.com/en/](https://livingatlas.arcgis.com/en/)
MAKE MAPS & ADD CONTENT

• Make Maps
  • Map Viewer

• Add data from Living Atlas, CSV, shapefiles, other

• Items you can add to ArcGIS Online
  • In addition to geographic content you can add .PDF, .PPT, .DOC, others
MANAGING CONTENT

• “Content” tab

• Create folders

• Create/add/move/delete/share items

• Link to view item details (documentation, usage statistics, settings)
GROUPS

• “Groups” tab

• A collection of items usually related to a specific area of interest

• Create and manage groups (name, describe, who can view/contribute)
GROUPS

• Item Updates

Who can view this group?
- Only group members
- People in the organization (University of Idaho)
- Everyone (public)

Who can join this group?
- Those who request membership and are approved by a group manager
- Only those invited by a group manager
- Anyone

Who can contribute content to the group?
- Group members
- Only group owner and managers

What items in the group can its members update?
- Only their own items
- All items (group membership is limited to the organization)
SHARING ITEMS

- All items are ‘private’ by default
- Users choose to make them available more broadly
- Groups can include members of other ArcGIS Online organizations (e.g. governmental or other academic institutions)
PERFORM GEOPROCESSING ANALYSIS

- Summarize data
  - Aggregate Points
  - Join Features
  - Summarize Nearby
  - Summarize Within

- Use proximity
  - Create Buffers
  - Create Drive-Time Areas
  - Find Nearest
  - Plan Routes
  - Connect Origins to Destinations

- Find locations
  - Find Existing Locations
  - Derive New Locations
  - Find Similar Locations
  - Choose Best Facilities
  - Create Viewshed
  - Create Watersheds
  - Trace Downstream

- Data enrichment
  - Enrich Layer

- Analyze patterns
  - Calculate Density
  - Find Hot Spots
  - Find Outliers
  - Interpolate Points

- Manage data
  - Extract Data
  - Dissolve Boundaries
  - Merge Layers
  - Overlay Layers
PERFORM GEOPROCESSING ANALYSIS

• More information:
SECURITY/PRIVACY/COMPLIANCE

• http://trust.arcgis.com
LEARNING RESOURCES

• **Esri Training**
  • Part of our site license
  • Learning Plans, Course Catalog, other self-paced resources

• **Esri ArcGIS Online Resources**
  • Blog, Tips & Tricks, Documentation, Videos, others

• **Esri Technical Support**
  • Part of our site license

• **U of I Library GIS Services**
ACCESS FOR U OF I

• Organization
  • Site license for those affiliated with U of I
  • U of I Research & Teaching - https://uidaho.maps.arcgis.com/home/signin.html
  • Sign in using U of I Vandal NetID

• Note that there are options other for business and personal use
DEMO

• https://uidaho.maps.arcgis.com
ANNOUNCEMENTS

GIS Day @ University of Idaho

November 18, 2020
Live Streaming Virtual Event
University of Idaho