Core Web GIS Skills for Public Safety



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Instructions for Wi-Fi



Wireless network: Jellyfish

- Open a web-browser.
- 2. Browse to any non-Google site. A login screen will display.
- Select "Guest Account" and complete the credentials form.
- You will receive an email and text message with a username and password to connect to the wifi.
 - You may need to step out into the lobby to get a cell connection
 - Write down / save your password, you will need it for your laptop.





Introductions

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Introductions

Survey123

• Scan this link and answer the questions:







Web GIS

A brief overview of ArcGIS Online & Portal for ArcGIS





What is Web GIS?



Any GIS that uses web technology to communicate between a server and a client (web browser, desktop app, mobile app)

Allows for:

- A global reach
- A large number of users
- Cross-platform capability
- Ease of use
- Unified updates
- Diverse applications

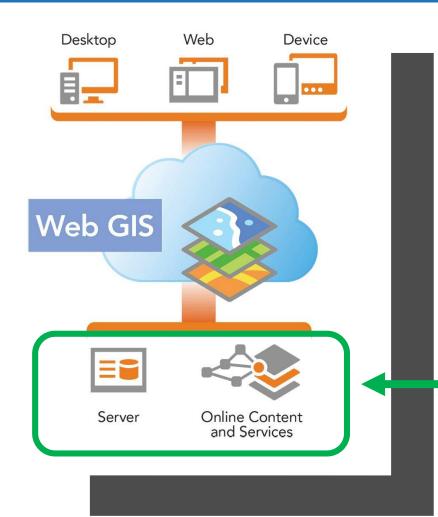
Today, we will focus on Esri's ArcGIS Online

 Much of this presentation can be applied to Portal for ArcGIS





What is ArcGIS Online (AGOL)?



Esri's cloud-based, SaaS (software-as-a-service) web GIS solution

 Allows users to use, create, and share maps, scenes, apps, layers, analytics, and data.

Portal for ArcGIS is similar but uses your own infrastructure, AWS, or Azure

AGOL is hosted on Esri's cloud/servers, not your own





Key Components of AGOL

- Layers
 - Reference a dataset and specifies how that dataset is portrayed using symbols and text labels
 - Feature and tile layers are most common
- Maps & Scenes
 - 2D or 3D maps made up of web layers that can be shared, edited, and displayed online
- Apps
 - Applications that allow you to control how users interact with web maps and scenes
 - Examples include configurable templates, Operations Dashboard, Web AppBuilder, mobile apps
- Sharing ability
 - Public
 - Private
 - Organization
 - Groups
 - Internal or collaboration with other orgs





Web GIS for Public Safety

- Disasters and incidents
- Planned special events
- Day-to-day operations
- Proactive community engagement
- Analysis projects
- ...and so much more

Bottom line: web GIS is an excellent tool to support public safety but don't just learn it in the moment or when the disaster strikes!





What we will cover today

- Live demos of an active shooter exercise
 - Creating data in AGOL via multiple methods
 - Creating a web map
 - Accessing content in a web map
 - Network and spatial analysis in a web map
 - Sharing a map as a web mapping application for Public Information
 - Configuring an Operations Dashboard
 - ArcGIS Solutions
- Show some additional tools, tips and tricks AGO assistant and Admin Tools





Scenario – Active Shooter at Ball High School

1530 – Ball High School is hosting a basketball game against their rivals

1535 – Shots fired at the school main entrance

1536 – 911 called and units are dispatched

1545 – Galveston PD has pre-incident planning and established the Command Post at the designated location





Resources

- ArcGIS Online help: https://doc.arcgis.com/en/arcgis-online/get-started/get-started.htm
- Learn ArcGIS Online: https://learn.arcgis.com/en/projects/get-started-with-arcgis-online/
- Esri training: https://www.esri.com/training/
- Survey123: https://doc.arcgis.com/en/survey123/reference/whatsnewsurvey123.htm
- QuickCapture: https://doc.arcgis.com/en/quickcapture/help/guidedtour-prepare.htm
- Operations Dashboard help: https://doc.arcgis.com/en/operations-dashboard/help/what-is-a-dashboard.htm
- Web AppBuilder help: https://doc.arcgis.com/en/web-appbuilder/create-apps/what-is-web-appbuilder.htm
- NAPSG Public Information Map prototype: https://napsg.maps.arcgis.com/apps/webappviewer/index.html?id=b8f9ea88453441d 6a1189a097e256841





Resources continued

- ArcGIS solutions: https://solutions.arcgis.com/#get-started
- AGO assistant: https://ago-assistant.esri.com/
- Admin
 - Tools: https://marketplace.arcgis.com/listing.html?id=c34019b0623041608df4d06970a7a96a
- HIFLD Open Data: https://hifld-geoplatform.opendata.arcgis.com/
- Arcade expressions: https://developers.arcgis.com/arcade/
- Update hosted feature services: <a href="https://www.esri.com/arcgis-blog/products/api-python/analytics/updating-your-hosted-feature-services-with-arcgis-pro-and-the-arcgis-api-for-python/?rmedium=redirect&rsource=blogs.esri.com/esri/arcgis/2017/03/14/updating-your-hosted-feature-services-with-arcgis-pro-and-the-arcgis-api-for-python

Upcoming event on public information maps:

http://events.r20.constantcontact.com/register/event?oeidk=a07ego4au603984838c&llr=nplxpbdab





Thank you!

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