Web Map Applications: The Geo-Web Revisited

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Web Map Apps

• In the first part of our exercise, you visited some web map applications

What’s a Web Map App?

• Web Map Apps rely on a browser and wrapper software to deliver GIS content to the client
• It is the browser that “consumes” the service(s)
• Web Map Apps are frequently “mash-ups” of various map and image services

Wrapper software is a generic term referring here to software like ArcGIS Portal
Putting Smart Maps on the Web

- Browsers (IE, Chrome, etc.) cannot consume services **directly**
- We need something (called wrapper software) to prepare these data for consumption

Which Wrapper…

- Which Environment will we use?
  - Adobe Flex
  - MS Silverlight
  - JavaScript
  - HTML 5
  - Portal (aka, ArcGIS Online (AGOL))
AGOL Architecture

- AGOL is a cloud resource
  - ISU's AGOL account is called gISU
  - Each of you already has (should have) a user account on gISU
  - gISU is allowed 3,000 user accounts
  - gISU is allowed 15,000 credits under our site license

Credits: Things you Need to Know!

- Storing geospatial data in the AGOL cloud costs credits
- Creating and storing TILES in the AGOL cloud costs LOTS of credits
- What do we do???
Leverage all our resources

- Create and store OUR geospatial data on OUR server
  – The GIS Center’s Portal
- Create web services (map/image services) on OUR server
- Share these services’ end-points with AGOL

How?

- AGOL– My Content– Add Item

How to...

- The ITEM URL expects a REST or SOAP end-point
How do I find my end-point?

- Use ArcGIS Pro from your desktop
- Access Portal from a web browser (easier)
  - Log-in
  - View Content
  - Select the web layer of interest
  - Copy its REST end-point

How do I find my end-point?

Copy and Paste

- Copy the REST end-point
- Paste it into AGOL
Time to Share

- From AGOL, share your item!
  - Once you add an ITEM to AGOL you can easily share it with others (by named group) or with EVERYONE.
  - Recall our discussion of permissions from the “Systems Administration” section of this class.

Why not use our Portal Directly

- Permissions and firewalls
- Visibility and discoverability

Now it's time for Cartography

- Make your map using AGOL tools
  - Explore
  - Have fun!
  - Detailed instructions in this week’s exercise document
- Since the data is not uploaded to AGOL, you will not use any credits!
Questions?