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
Service Architecture

Putting Smart Maps on the Web
• Browsers (IE, Chrome, etc.) cannot consume services directly
• They need something (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 presence is called gISU
  - Each of you already has (or should have) a user account on gISU
  - gISU is allowed 3,000 user accounts
  - gISU is allowed 100,000 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 TReC’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?

- Access Portal from a web browser
  - 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
- This Adds the Item to your AGOL account
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 (public),
  – 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?