ARCGIS ONLINE
A CLOUD FIRST APPROACH TO ENTERPRISE GIS

Chesterfield County, VA
WHY USE ARCGIS ONLINE

• Easy for non GIS professionals to use
• COTS (commercial off-the-shelf)
• Replacing aging web applications
• Mobile
HOW LONG DID IT TAKE

- 1.5 years
### DATA ORGANIZATION

**Chesterfield DataUpdater - Content**

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Modified</th>
<th>Shared</th>
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</table>
• https://github.com/ChristopherLongVT/update-hosted-feature-service

```python
def multipart_request(self, params, files):
    """ Uploads files as multipart/form-data. files is a dict and must
    contain the required keys "filename" and "content". The "mimetype"
    value is optional and if not specified will use mimetypes.guess_type
    to determine the type or use type application/octet-stream. params
    is a dict containing the parameters to be passed in the HTTP
    POST request.
    """
    content = open(filename, "rb").read()
    files = {
        "file": ("filename": some_file.og, "content": content)
    }
    params = ("f": "json", "token": token, "type": item_type,
    "title": title, "tags": tags, "description": description)
    data, headers = multipart_request(params, files)

    # Get mix of letters and digits to form boundary.
    letters_digits = "".join(string.digits + string.ascii_letters)
    boundary = "--".join(random.choice(letters_digits) for i in range(16))
    file_lines = []
    # Parse the params and files dicts to build the multipart request.
    for name, value in params.items():
        file_lines.extend("--".join((boundary),
        "Content-Disposition: form-data; name=""filename".format(name),
        "", str(value)))
    for name, value in files.items():
        if "filename" in value:
            filename = value.get("filename")
```
Welcome to the Chesterfield County GIS Portal for Maps and Applications

These maps and applications are for use by county and state agencies, as well as the public.

For more information about Chesterfield County, visit: chesterfield.gov
If you have questions, comments, or suggestions, please email: CC.ArcGIS@chesterfield.gov
Welcome to Chesterfield County's GeoSpace.
These maps and applications are for use by county and state agencies, as well as the public.

Application Galleries

New Maps and Applications
Environmental Engineering
Plans, Zoning & Development
Real Estate
How was GeoSpace made

- Using an EEAP (ESRI Enterprise Advantage Program)
- Through UI/UX design in conjunction with ESRI
- GeoSpace was created using the ESRI Open Data Framework
  - Looks like Chesterfield.gov
  - Used our own URL
DO YOU GET DATA REQUESTS

• How do you prioritize them?
• Do they seem sketchy?
• What if the people requesting data serve your community?
EVOLUTION OF SHARING GIS DATA

- Don’t share!
- Share but come to us and pay.
- Pay and we will mail you a CD.
- Pay and we can FTP you data.
- FTP for Free.
- Open Data!
Welcome to Chesterfield County’s Open GeoSpace.

Search for county datasets that include Addresses, Parcels, Subdivisions and more.

Find Your Data

Search Open Data

Or Explore All Data
DEMONSTRATING HOW MUCH TIME SHARING DATA TAKES

- Data Requests
- Migrate to ArcMap 10.x
- Shift GIS to the cloud (Open Data)
ARE PEOPLE USING THE OPEN DATA SITE

Audience Overview

All Users
100.00% Sessions

Overview

Sessions

Apr 25   Apr 29   May 3   May 7   May 11   May 15
ARE PEOPLE USING GEOSPACE
WHAT WE DID WELL

• We made an enterprise GIS solution in the cloud
• We enabled non GIS people to create maps and perform simple analysis
• These people are making their own applications for the public
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