



ARCGIS ONLINE
A CLOUD FIRST APPROACH TO ENTERPRISE GIS

Chesterfield County, VA

1749

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

Folders

- NEW DELETED
- ChesterfieldVA (Home)
- Production Services
- Services

Show

- All
- Maps
- Layers
- Scenes
- Apps
- Tools
- Files

Actions: + Add Item, Create, Share, Delete, Move, Change Owner

Title	Type	Modified	Shared
Address	Service Definition	Jul 10, 2016	Everyone
Address	Feature Layer	Jul 10, 2016	Everyone
Administrative	Service Definition	Jul 10, 2016	Everyone
Administrative	Feature Layer	Jul 10, 2016	Everyone
Cadastral	Feature Layer	Jul 10, 2016	Everyone
Cadastral	Service Definition	Jul 10, 2016	Everyone
External	Service Definition	Jun 12, 2016	Everyone
External	Feature Layer	Jun 12, 2016	Everyone
GRA_Review	Service Definition	Apr 13, 2016	Everyone
HistoricLandUsePlan	Service Definition	Jun 12, 2016	Everyone
HistoricLandUsePlan	Feature Layer	Jun 12, 2016	Everyone
Hydrography	Service Definition	Jul 10, 2016	Everyone
Hydrography	Feature Layer	Jul 10, 2016	Everyone
ParksAndRec	Service Definition	Jun 12, 2016	Everyone
ParksAndRec	Feature Layer	Jun 12, 2016	Everyone
Planimetric	Service Definition	Jul 10, 2016	Everyone
Planimetric	Feature Layer	Jul 10, 2016	Everyone
Planning	Service Definition	Jul 10, 2016	Everyone
Planning	Feature Layer	Jul 10, 2016	Everyone
Political	Feature Layer	Jul 10, 2016	Everyone

1 - 20 of 29 results

<< < 1 2 > >>

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UPDATE!

- <https://github.com/ChristopherLongVT/update-hosted-feature-service>

```
343 def multipart_request(self, params, files):
344     """ Uploads files as multipart/form-data. files is a dict and must
345         contain the required keys "filename" and "content". The "mimetype"
346         value is optional and if not specified will use mimetypes.guess_type
347         to determine the type or use type application/octet-stream. params
348         is a dict containing the parameters to be passed in the HTTP
349         POST request.
350
351         content = open(file_path, "rb").read()
352         files = {"file": {"filename": "some_file.sd", "content": content}}
353         params = {"f": "json", "token": token, "type": item_type,
354                 "title": title, "tags": tags, "description": description}
355         data, headers = multipart_request(params, files)
356     """
357     # Get mix of letters and digits to form boundary.
358     letters_digits = "".join(string.digits + string.ascii_letters)
359     boundary = "----WebKitFormBoundary{}".format("".join(random.choice(letters_digits) for i in range(16)))
360     file_lines = []
361     # Parse the params and files dicts to build the multipart request.
362     for name, value in params.iteritems():
363         file_lines.extend(("--{}".format(boundary),
364                             'Content-Disposition: form-data; name="{}"'.format(name),
365                             "", str(value)))
366     for name, value in files.items():
367         if "filename" in value:
368             filename = value.get("filename")
```

```
1 [FS_INFO]
2 SERVICENAME = Feature Service Name
3 FOLDERNAME = Folder Feature Service is Stored In (This is in ArcGIS Online)
4 MXD = Directory your MXD is stored in
5 TAGS = Tags for the service
6 DESCRIPTION = Description of the Service
7 MAXRECORDS = 1000
8
9 [FS_SHARE]
10 SHARE = False
11 EVERYONE = true
12 ORG = true
13 GROUPS = If sharing to a group this is the group ID
```

Chesterfield County, VA
GIS Portal for Maps and Applications

« **New Maps and Applications** **Environmental Engineering** **Plans, Zoning & Development** **Real Estate** »

All New Maps and Applications Environmental Engineering Plans, Zoning & Development Real Estate

Background Photo Courtesy of Mark Battista

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: CCArcGIS@chesterfield.gov



CitizenGIS
Silverlight Fix



Parcel Viewer Application



Printed Map Gallery



GeoSpace



Background Photo Courtesy of Mark Battista

Welcome to Chesterfield County's GeoSpace.

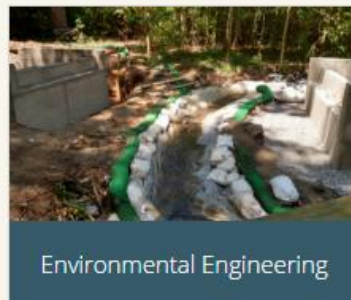
These maps and applications are for use by county and state agencies, as well as the public.

Application Galleries



 *New
Maps and
Applications*

New Maps and Applications



Environmental Engineering



Plans, Zoning & Development



Real Estate

GEOSPACE

- 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.

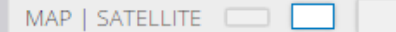
Pay and we can FTP you data.

FTP for Free.

Open Data!



Open GeoSpace



Welcome to Chesterfield County's Open GeoSpace.

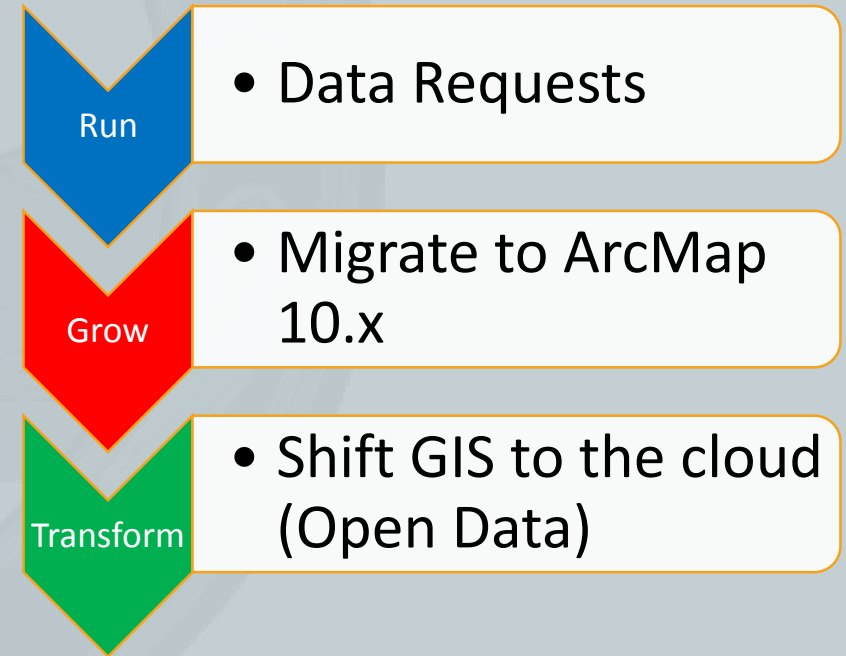
Search for county datasets that include Addresses, Parcels, Subdivisions and more.

Find Your Data



Or Explore All Data

DEMONSTRATING HOW MUCH TIME SHARING DATA TAKES



ARE PEOPLE USING THE OPEN DATA SITE

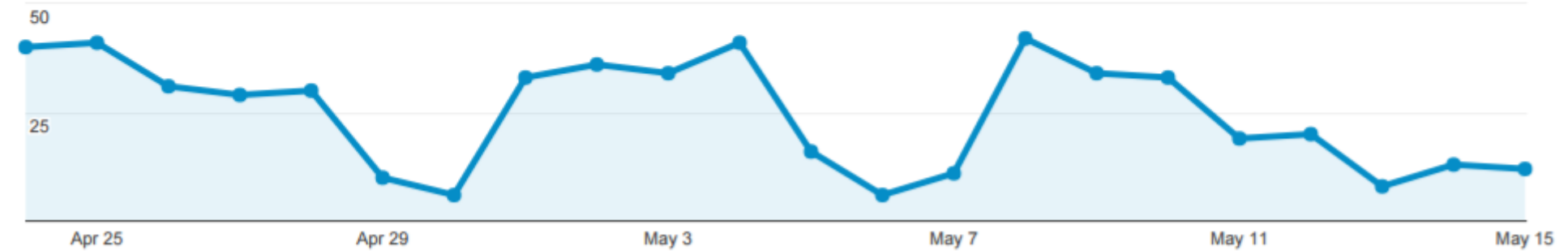
Audience Overview

Apr 24, 2017 - May 15, 2017

All Users
100.00% Sessions

Overview

Sessions



ARE PEOPLE USING GEOSPACE



All Users
100.00% Sessions



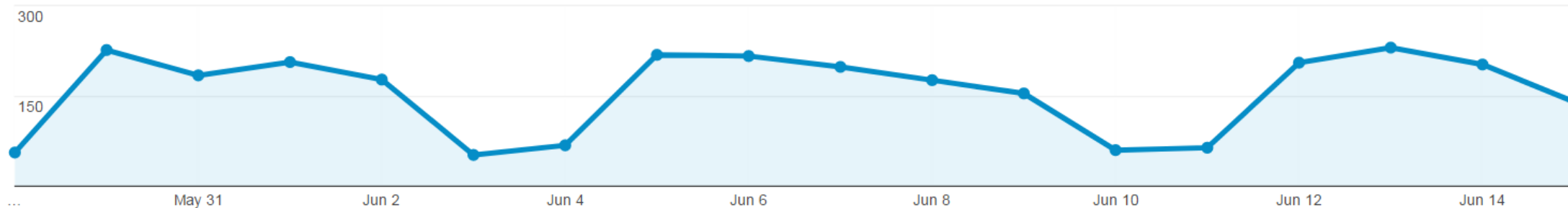
+ Add Segment

Overview

Sessions ▾ vs. [Select a metric](#)

Hourly Day Week Month

● Sessions



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

CONTACT

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