IPA Student Workshop

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UNIVERSITY OF DELAWARE

Welcome!

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Overview

- Terms
- Mapping Services
- ArcGIS Online
  - FirstMap and other GIS Services
  - Creating a map
  - Creating a web map
  - Creating a map app
  - Sharing options

Terms

- GIS - Geographic Information System

- GPS - Global Positioning System

- Geospatial - relating to the relative position of things on the earth's surface; a GIS deals with spatial data
  - Maps are a great visual way to record information (data), track changes, and plan for the future – think of a spreadsheet
  - Lots of information presented in a compact form ("a picture is worth a thousand words")

- Web Maps or Interactive Maps

- Web Mapping Applications (for example: Story Maps)

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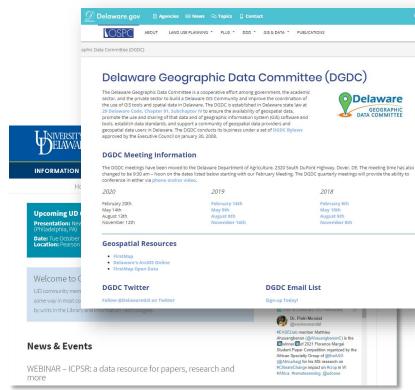# GIS Services and other Resources

- DGDC list-serve - https://stateplanning.delaware.gov/dgdc/email.shtml
- **FirstMap** - https://firstmap.delaware.gov/arcgis/services
- **FM 2.0 services**
- https://enterprise.firstmap.delaware.gov/arcgis/rest/services
- **FM 2.0 imagery**
- https://imagery.firstmap.delaware.gov/imagery/rest/services
- New Castle County - https://gis.nccde.org/agsserver/rest/services/
- Kent County - http://co.kent.de.us/server/rest/
- Sussex County - https://maps.sussexcountyde.gov/gis/services
- Living Atlas
- Maryland Open Data Portal (MD iMap) - https://opendata.maryland.gov/stories/s/Council-on-Open-Data/vyny-sdaq/
- PolicyMap - www.policymap.com/maps
- Living Atlas - https://livingatlas.arcgis.com/en/

State Geospatial Entities

- **University of Delaware GIS**
  - https://sites.udel.edu/it-rci/gis/

- **Delaware Geographic Data Committee (DGDC)**
  - https://stateplanning.delaware.gov/dgdc/

- **Maryland's Mapping & Geospatial Portal MD iMAP**
  - https://imap.maryland.gov/Pages/imap-subscribe-signup.aspx

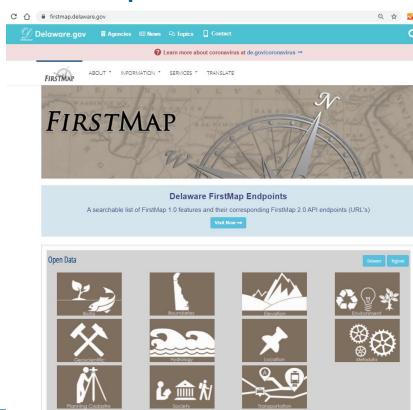- **Pennsylvania Spatial Data Access**
  - https://www.pasda.psu.edu/

Delaware FirstMap

- http://firstmap.delaware.gov/

- Open Data

- Featured Applications

- Training

  - http://training-delaware.opendata.arcgis.com/

- Events

- News

- Resources

  - https://firstmap.delaware.gov/index.shtml?dc=resources

New Castle County Maps

- https://nccde.maps.arcgis.com/home/index.html

Kent County Mapping

- http://www.co.kent.de.us/gis-division/public-mapping-web.aspx

Sussex County Mapping

- https://www.sussexcountyde.gov/sussex-county-mapping-applications
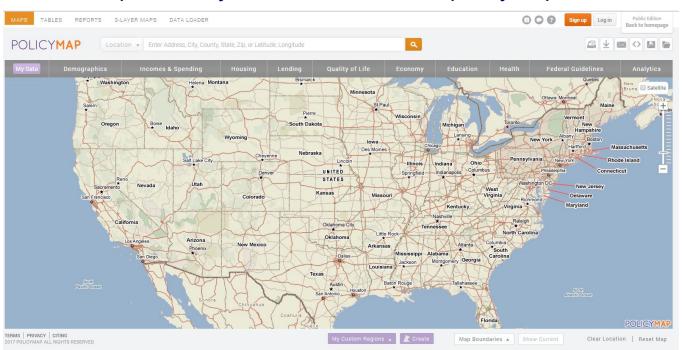
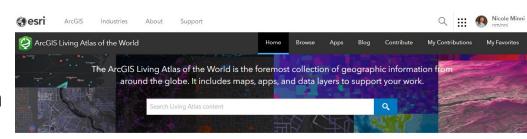# Adding Sussex Data as a Web Service into AGOL

PolicyMap

- https://library.udel.edu/databases/policymap/

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ArcGIS Living Atlas of the World

- https://livingatlas.arcgis.com/en/

- Collection of geographic information from around the globe
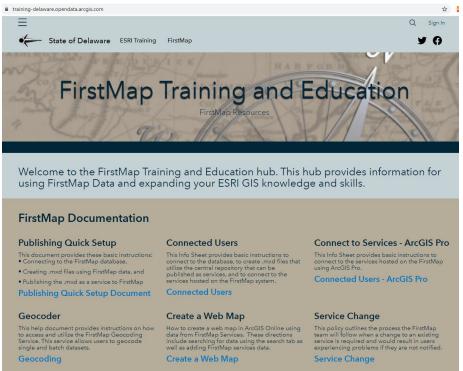
- Includes maps, apps, and data layers

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FirstMap Training and Education

- https://training-delaware.opendata.arcgis.com/
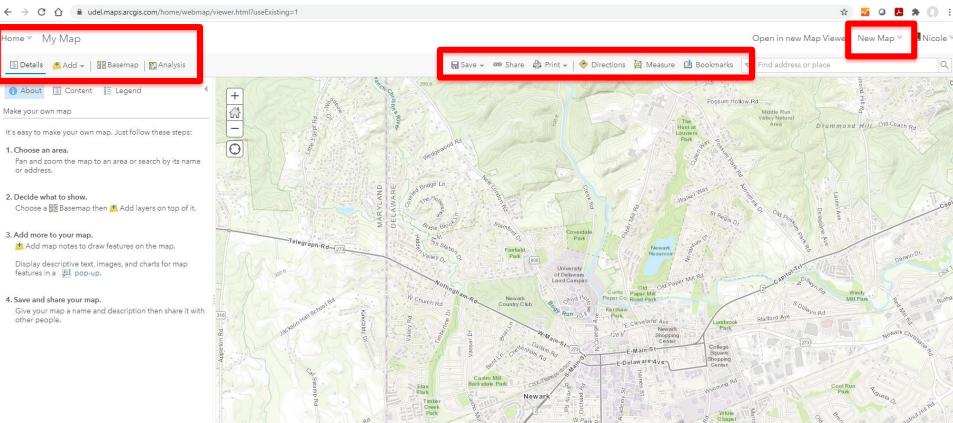- https://firstmap.delaware.gov/pdfs/public/FirstMapAGOL.pdf
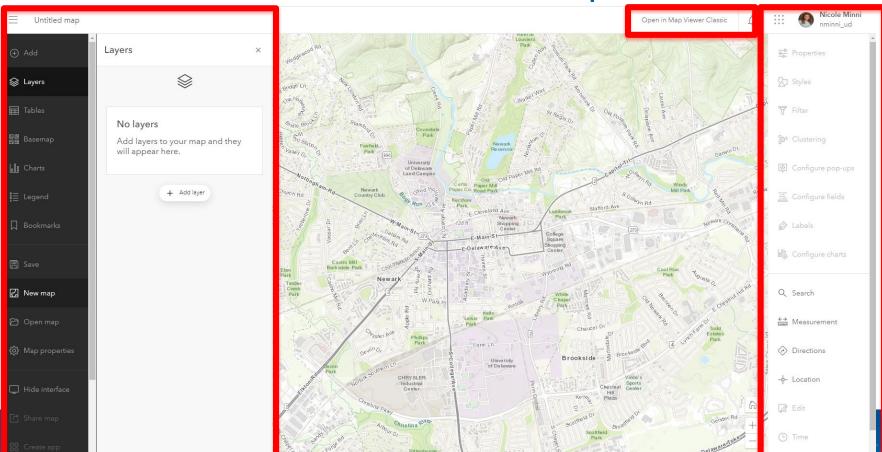
University of Delaware's ArcGIS Online Account

https://udel.maps.arcgis.com/home/index.html

ArcGIS Online – Map Viewer Classic

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ArcGIS Online – New Map Viewer

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ArcGIS Online – Finding Data

- **Click Add → Search for Layers → Type in FirstMap (Del.), iMAP (Md.)**

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Adding Tables to ArcGIS Online

- https://storymaps.arcgis.com/stories/bed80a11029342baa0f2307bb92b2018

Adding spreadsheet data to a map in ArcGIS Online

How to drag and drop data files to produce a map instantly.

🕐 5 min

🌐 Story map
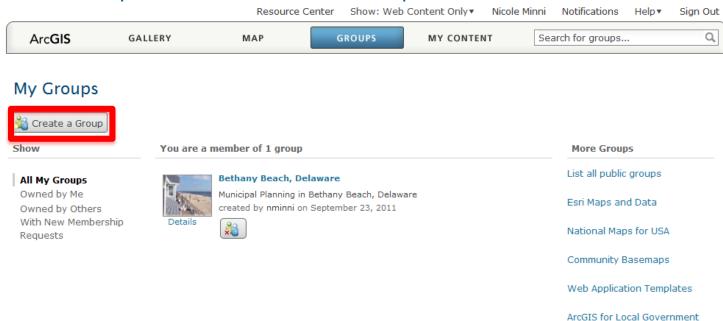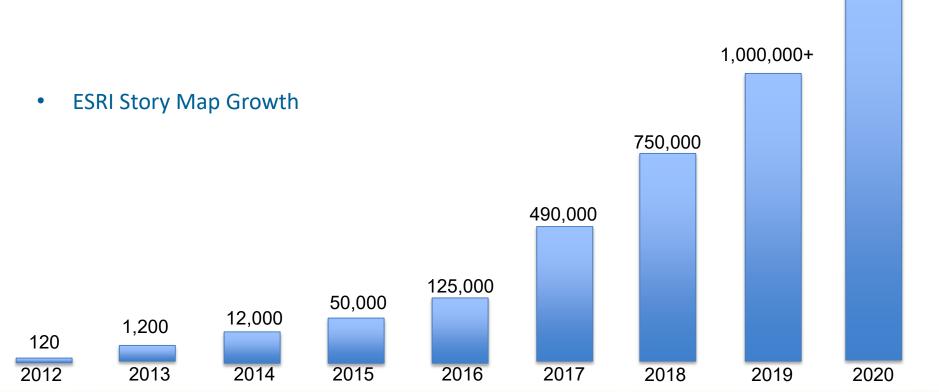
ArcGIS Online

- Create a Group or Become a Part of a Group

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Growth of the Story Map Community

- ESRI Story Map Growth
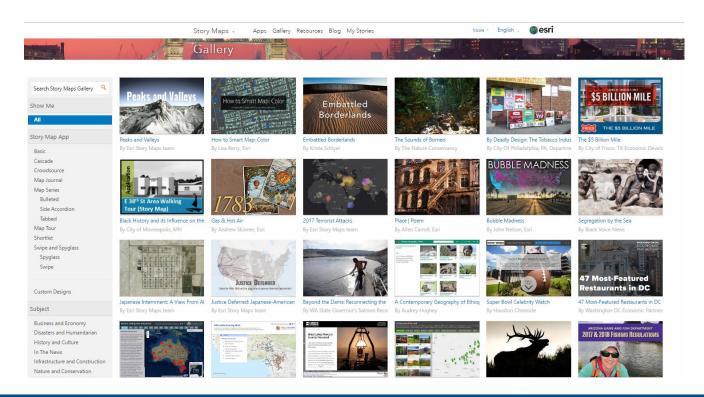
Story Map Applications

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What Makes a Good Story Map

- Esri
  - Connects with your audience, brings viewers into the story
  - Creates interest and emotion
  - Uses great maps and media
  - Story maps support the story/research
  - It is optimized, so it performs well over different devices
  - Tells a simple story
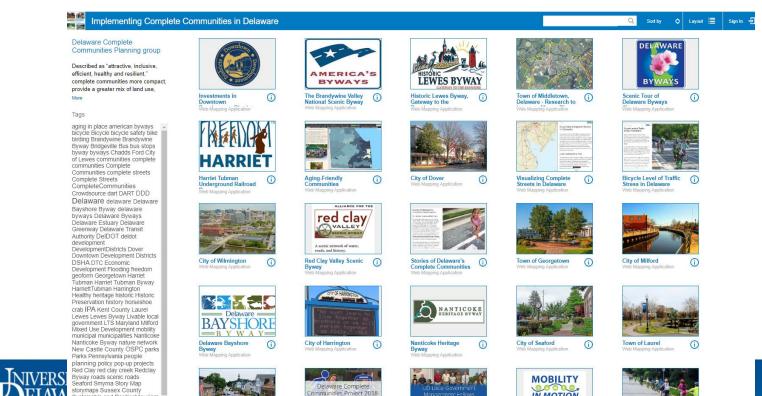- All you need is an idea or inspiration!

Complete Communities Story Map Collection

- http://udel.maps.arcgis.com/apps/MapAndAppGallery/index.html?appid=c72d06880390498b9193b12617943592

FirstMap – State of Delaware Gallery
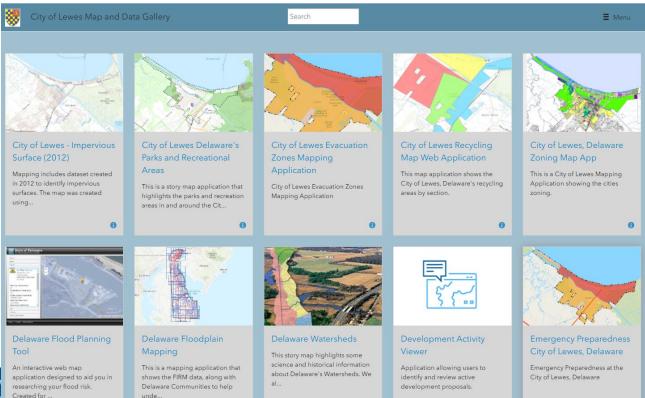
- https://delaware.maps.arcgis.com/home/gallery.html

City of Lewes Story Map Gallery

- https://lewesdel.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6e6701ccee234c1d857235b4f5e4d613

Creating Your Story Map

- Your idea of the story you want to tell
- Have your photos, videos, images ready
- Prepare your web maps
- Determining which template you want to use, will depend on your content
- Visit the gallery http://storymaps.arcgis.com/en/gallery/#s=0

Make your first story

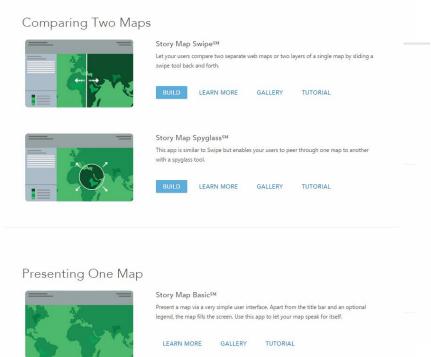| Start by planning | Craft your narrative | Add your map | Refine the design | Share your story |

Esri

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Many Different Story Map Options

Comparing Two Maps

Story Map Swipe℠
Let your users compare two separate web maps or two layers of a single map by sliding a swipe tool back and forth.

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Story Map Spyglass℠
This app is similar to Swipe but enables your users to peer through one map to another with a spyglass tool.

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Presenting One Map

Story Map Basic℠
Present a map via a very simple user interface. Apart from the title bar and an optional legend, the map fills the screen. Use this app to let your map speak for itself.

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Series
- Sequenced of Place-enabled
- Narrative
  - Cascade
  - Story Map Journal
- Series of Maps
- Comparing Two Maps
- Presenting One Map

Tutorials

- https://storymaps.arcgis.com/en/app-list/
- Each Story Map comes with its own tutorial
- Walking you through each step
- Shows a Gallery of examples
- Learn more section (developer)
  - Download and customize
- Let's get started

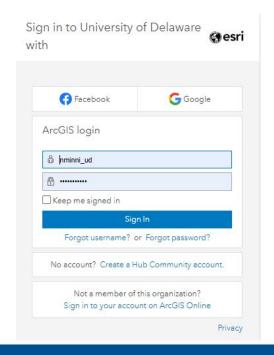# Create a FREE ArcGIS Online Account

- https://www.esri.com/en-us/arcgis/products/create-account

University of Delaware's ArcGIS Online Account

https://udel.maps.arcgis.com/home/index.html

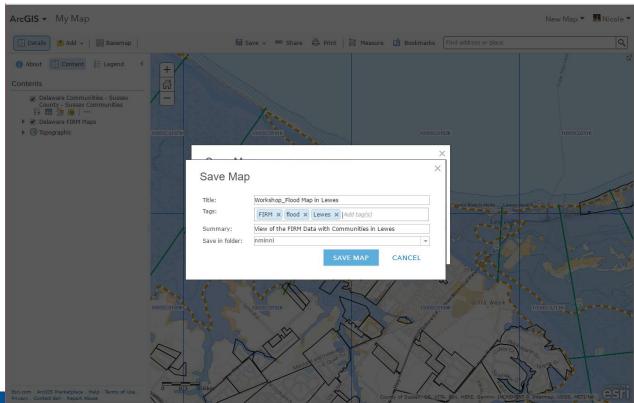# Sign in to the University of Delaware ArcGIS Online Organizational Account (AGOL)

Add Data: Reference Hands-on Handout

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Save Your Map

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Sharing Your Map

Create a New Web App

KEY POINTS

- High resolution landscape photos
- jpegs format
- Videos – YouTube
- https://

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Metadata: Information about your project

Thank You!
Reach me at: nminni@udel.edu