

### Lab 3. Working with human inventory data in ArcGIS Online

Go to <http://arcgis.com/> and sign in with your ArcGIS Online credentials (use the Forgot Password tool if you can't remember).

Once in, click **Map** at the top of the page. You will add a few datasets to your map from data available through ArcGIS Online. To add the first, click on the **Add** button on the left above the Table of Contents area. You will need to find the **2020 USA Population Density** dataset, making sure to search in ArcGIS Online (the default will be My Organization). Once you find the dataset in the list provided from the search, click on **Add** to the right of the dataset name.

Continue until you have added all of the following human community datasets to your ArcGIS Online map.

- a) Population – 2020 USA Population Density
- b) Economic – 2020 USA per Capita Income
- c) Cultural resources – Maryland National Register of Historic Places (by ArcGIS Online for Maryland)
- d) Urban – USA Major Cities

Once you have added all of these layers click the left pointing arrow at the top of Table of Contents area. Zoom-in to Maryland. Save your document using a meaningful name to make sure you will not lose your changes.

Adjust the layers under the Contents tab so that the urban and cultural resource data are the top two layers if they are not already. Turn the layers on and off as needed to contemplate and provide responses to the following questions. Keep in mind that the base layer (under the USA data) has transportation information.

- 1) What is the relationship between the location of cultural resources and modern cities in Maryland?
- 2) Broadly speaking, what is the economy in the rural areas of the state?
- 3) Take a look at the cultural resources. What city/town has the most cultural resources? What part of the state?
- 4) There is only one 'major city' west of I-81 in Maryland, what is it and what was its population as of 2015?

**Now find and add two other datasets relevant to land use and/or planning.**

- 5) **Briefly explain** how all 6 of the layers you used reflect what the book discusses in Chapter 4.

**Post your answers** to these questions to Canvas.