**Homework 1: Story Map**

*“Use maps to tell a story”*

**Objective:**

This is an individual homework to explore spatial patterns or relationships among different GIS data and tell a story through maps.

**Description:**

In this homework, you will present a story using maps to convey information derived from the GIS data; or to synthesize multiple data elements; or to analyze and report results. You will share that story using a map visualization web application available in the ESRI Story Map Series (<https://storymaps.arcgis.com/en/app-list/map-series/>). Your story can explore spatial patterns or relationships among different features anywhere in the world. You are given complete latitude in choosing the story to tell. Some of the broad topics include infrastructure, safety, environment conservation, sustainability, disaster and resilience, etc. Within each topic you can choose to study changes, analyze patterns and assess impacts. Examples of topics that were previously chosen were:

* Demographic changes in a Georgia and their relationship to transportation system
* Land use changes or environmental changes in a Atlanta Region and their relationship to certain factors
* Development in coastal area and flood risks
* Pattern or relationship between income and other factors
* AADT maps (e.g., changes or relationship to certain factors)
* Crash location maps (e.g., where are dangerous roads)
* Ride quality index maps

The following link suggests some more areas that you can explore.

<https://storymaps.arcgis.com/en/app-list/map-series/gallery-series/#s=0&md=storymaps-apps:map-series>

The following are the data sources you can begin with. You are required to find and use at least two data online in your map.

* ArcGIS Online
* Lab data shared on t-square
* Georgia GIS Clearing house (https://data.georgiaspatial.org/login.asp)
* Atlanta Regional Commission (<http://www.atlantaregional.com/info-center/gis-data-maps/gis-data>)
* United States Census Bureau (<https://www.census.gov/geo/maps-data/data/tiger.html>)
* USGS

**Note:**

* This is a NOT a base. Instead, your map will reveal some information through spatial patterns or relationship of the data.
* You are expected to configure the title, scale, map, page, layer categories, layer styles, labels etc. to produce the most informative maps possible. Titles must be descriptive of the map.
* Your story will be presented in the class and peer evaluated.

**Deliverable:**

* A link to your story map

Create a story through maps using the ESRI Story Map Series℠ web application and provide write ups that complements the map in the ’description’ tab.

* DO NOT exceed 3 tabs for your story.
* Write ups for each map must not exceed 250 words.
* Document the data source based on the template provided. The map story must contain at least two sources outside lab resources.
* Prepare a brief introduction for your map story.
* Note that your map will be peer evaluated.

**Submission:**

Submit your ESRI Story Map Series link on t-square.

* A test link (with title) due on September 13 at 5:00 pm
* ESRI Story Map Series due on September 16 (1:00 pm)

**Evaluation:**

Grading criteria

* Clarity and completeness of map story (40%)
  + Succinct title or caption
  + Clear and logic description
  + Value-added information
  + Usability of information as presented
  + Maps and description are coherent
* Quality of Map (40%)
  + Map components included
  + Readability of relevant data
  + Effectively convey the information (easy to understand)
* Data source documentation (10%)
* Peer Evaluation (10%)