This document outlines how New Jersey Office of GIS Imagery data can be used to conduct change visualization over time.

**Reference Data:**

The NJGIN Website and the Information Warehouse can be used to download reference data

NJGIN: [https://njgin.nj.gov/njgin/edata/imagery/index.html](https://njgin.nj.gov/njgin/edata/imagery/index.html)

Information Warehouse: [https://njgin.state.nj.us/OGIS_IW/](https://njgin.state.nj.us/OGIS_IW/)

- For this tutorial tiles from the following datasets were downloaded from the Information Warehouse:
  - NJ 2015 Orthophotography MG4 - New Jersey 2015 High Resolution Orthophotography, NAD83(2011) NJ State Plane Feet, MrSID Tiles

**Software Used:**

- ArcGIS Pro 2.5
  - ArcGIS Pro is the latest desktop GIS application produced by Esri. ArcGIS Pro can be used to visualize, analyze, and share 2D or 3D data: [https://pro.arcgis.com/en/pro-app/get-started/get-started.htm](https://pro.arcgis.com/en/pro-app/get-started/get-started.htm)

**Visualizing Change:**

- If you have downloaded MG4 MrSID files from your information warehouse, please note that all four bands are present and some adjustments may need to be made for proper display.
  - In ArcGIS Pro click the tile you wish to adjust, the appearance tab will then become active. Click stretch type and choose None.
- Insert a map into your project and load in the 1995 imagery tiles.
- Insert another map and load in the 2015 imagery. Drag the map so that it is next to the 1995 map.
- Click the views tab and click link views → center and scale.

- You can now pan around on one map and the other map will update accordingly.
In this screenshot we can see an area that has been redeveloped in order to build a new stadium.