



ANJEC Using GIS to your Advantage

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GIS Guide

Glossary

Geographic Information System (GIS) – A GIS integrates hardware, software and data for capturing, managing, analyzing and displaying all forms of geographically referenced information.

Attribute – A piece of data or information associated with a specific geo spatial feature.

Geographic Coordinate System – a spherical coordinate system of degrees of latitude and longitude that is used to locate features on the earth’s surface.

Projection – a mathematical transformation that converts spherical units of latitude and longitude to a planar x-y coordinate system.

Feature – a spatial object composed of one or more x-y coordinate pairs and having one or more attributes in a single record of an association table.

Feature Class – a set of similar objects with the same attributes stored together in a spatial data file

Metadata – information stored about data to document its source, history, management, uses and more.

Layer – a reference to a feature class and its associated properties.

Shapefile – the spatial data model developed for, and used by, ArcView 3 and later versions, as well as other online GIS clients.

Geodatabases – a data model developed for ArcGIS 8 that employs recent database technology for storage and implements rules and topology.

Online GIS Viewers/Tool kits

Highlands Council - <http://www.state.nj.us/njhighlands/gis/> Click “Go To Interactive Map”

Conservation Blueprint - <https://www.njmap2.com/blueprint/> Click “Maps”

NJDEP NJ GeoWeb - <http://www.nj.gov/dep/gis/geoweb splash.htm> Click “Launch GeoWeb Profile” button

Google Earth Pro - <https://www.google.com/earth/desktop/> click “download” and install

The Landscape Project - <http://www.state.nj.us/dep/fgw/ensp/landscape/index.htm>

Data Sources

NJDEP - <http://www.nj.gov/dep/gis/listall.html>

Highlands Council - <http://www.state.nj.us/njhighlands/gis/> Click “NJ Highlands Open Data”

NJDOT - <http://www.state.nj.us/transportation/gis/map.shtm>

NJGS - <http://www.state.nj.us/dep/njgs/geodata/index.htm>

NJGIN - https://njin.state.nj.us/NJ_NJGINExplorer/index.jsp

Search “Shapefiles” with keywords