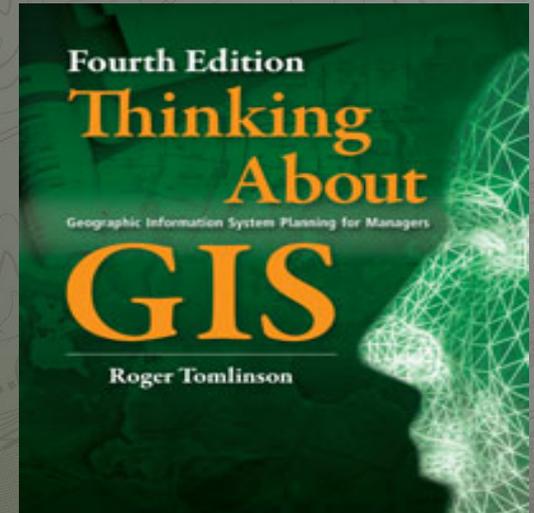




Where do I start ?

- What is the purpose/goal of the project?
- What data do I need?
- Where can I get the data?
- Will the data meet my needs?
- What do I need to do with the data?





Where can I get data?

- FWS Regional GIS Coordinators/Contacts (See Web site)

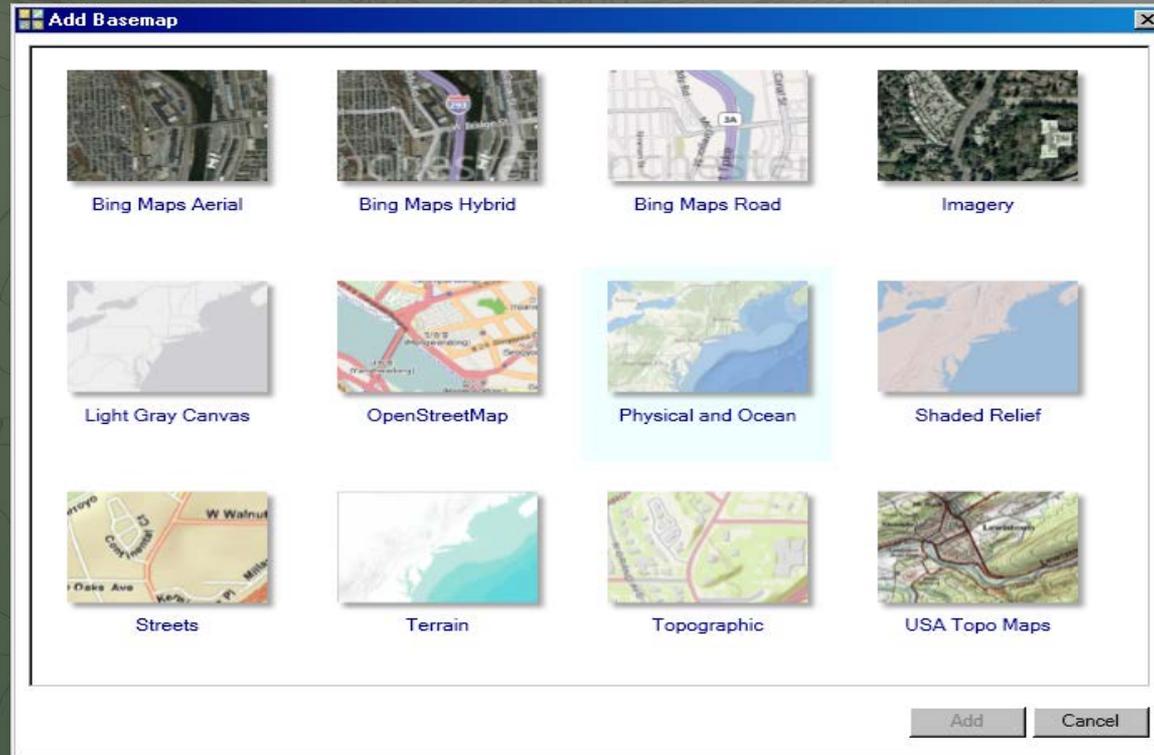


- **Google it!** (See list of recommended Web sites)



Where can I get data?

- ArcGIS/ArcInfo 10.2 - ESRI Online Services



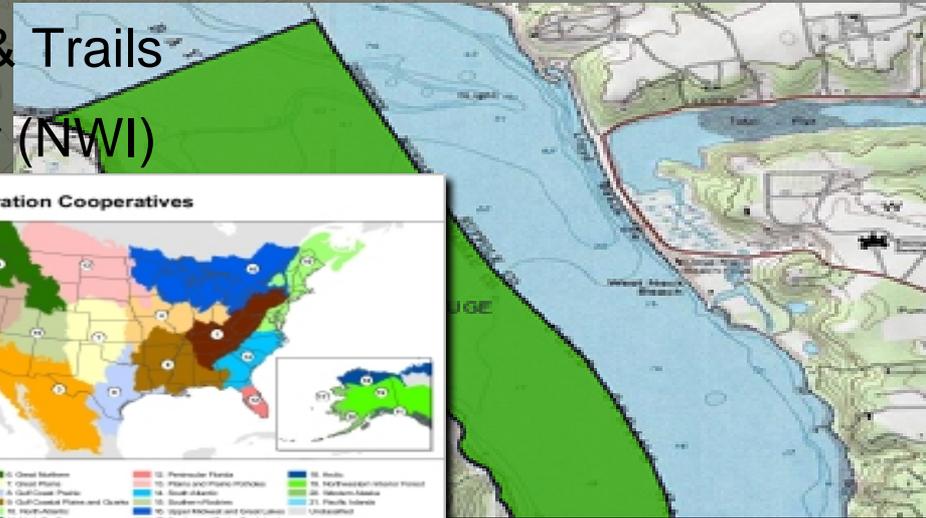


Where can I get data?

- FWS Geospatial Services Web Site - National Data Sets

<http://www.fws.gov/gis/data/national/index.html>

- NWRS Boundaries, Roads & Trails
- National Wetlands Inventory (NWI)
- Office Locations
- Critical Habitat
- LCC's





Who creates GIS data?

- Federal Agencies
 - USGS, NRCS, EPA, Census Bureau, FWS (NWI),
 - Forest Service, BLM, FEMA, NOAA
- State & Local Governments
- Commercial/Private Companies
 - Remote Sensing Firms
 - Third Party Vendors



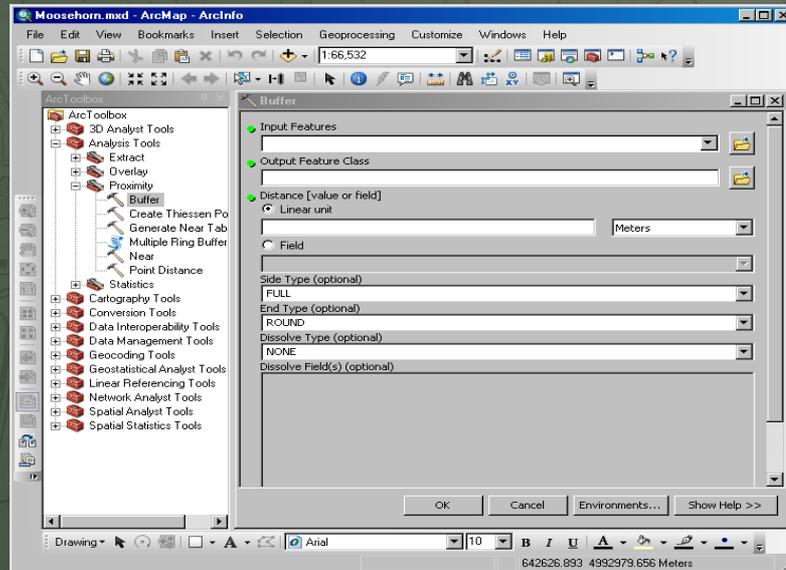
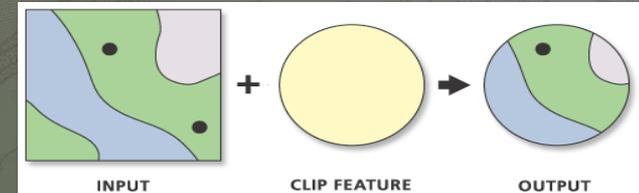
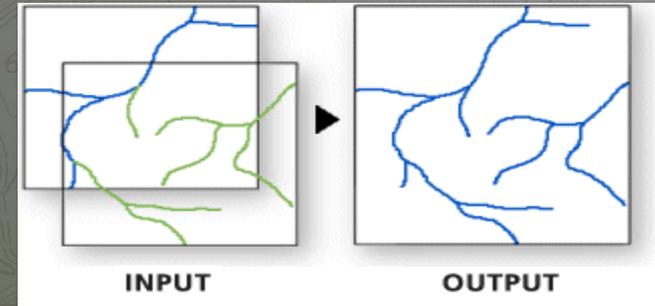
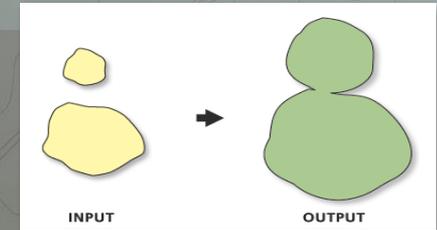
Data Development

- Contracting
- Create it yourself - “in-house”
 - GeoProcessing Techniques & Tools
 - GPS
 - On Screen Digitizing
- Data Development requires time, planning & effort
 - GIS Project Design I - Data Development & Management (CSP7200)



Creating your own GIS data

- Queries & GeoProcessing
 - Select by Attribute, Definition and Location
 - ArcTool Box





Creating your own GIS data

- Global Positioning System (GPS) and mobile GIS devices
- 3 Grades
 - Survey
 - Mapping
 - Recreation
- Requires specialized training and software
 - ArcPad 10, CartoPac, TerraSync, Garmin DNR



GPS I - Field Mapping and Inventory (CSP7101)

GPS II - Advanced Field Mapping and Inventory (CSP7301)



Creating your own GIS data

- On-screen digitizing in ArcMap 10

