Demonstrating GIS interoperability for floodplain management

- Goal: Integrate web map services from federal, state, and local government sources “on-the-fly” to address “real world” floodplain management issues.
- Identify mismatches between FEMA flood insurance rate maps and local government digital mapping. (e.g. Winnebago project)
- Identify structures in the floodplain.
- Select parcels that intersect the floodplain to support notification of property owners.
Interoperability Issues

- Application vs. Component WMS
- Web Site vs. Data Sharing
- Image vs. Feature WMS
- Analytical Capabilities
- Security
- Coordinate System Parameters
  - WTM, County Coordinates do not have predetermined codes that
- Interoperability Among GIS Software Products (ESRI, Intergraph, Autodesk, Open Source)
Client Software

- GIS Software
  - ESRI (ArcGIS/ArcMap)
  - Intergraph (GeoMedia)
  - Autodesk
  - Others...

- Browser Interfaces
  - ESRI (ArcExplorer - Web Map Edition)
  - Cubewerks
  - Mapserver
  - Others...

Web Map Servers in Wisconsin

- Federal
  - Use www.geographynetwork.com to start

- State
  - DNR, Commerce (brownfields), WLRB (redist), others

- County
  - Bayfield (ms), Chippewa, Clark, Fond du Lac, Ozaukee (gm), Pepin, Waukesha, Winnebago
  - Coming soon: Oconto, others?

- Municipal
  - Milwaukee, Madison, Calenonia (ms), others...