

## GIS Clearinghouse User Requirements

**User Requirement #1 - GIS Services Support** - Private companies that provide mapping services for local, state, and federal organizations need secure access to key data layers for their clients.

- End user requirements:
  - Data query and searching capabilities based on geographic or keyword searches.
  - Access to publicly available GIS datasets in standard formats (e.g. Shapefile, Geodatabase). Access could be provided as links back to the data owner's FTP site or a repository hosted by another organization.
  - Access to GIS datasets available using authenticated access. Access could be provided as an authenticated link back to the data owner's FTP site or a repository hosted by another organization.

**User Requirement #2 - Economic Development Prospect Support** - In-state and out-of-state companies selecting business sites and properties in the Commonwealth need access to a wide variety of GIS data and services.

- End user requirements:
  - Web mapping application providing visualization, querying, and collaboration tools for key Commonwealth datasets.
  - Access to publicly available web services that provide mapping data in industry standard formats (e.g. ESRI map service, WMS service, GeorSS feed).

**User Requirement #3 - Corporate Resource Data Support** - Many private organizations use GIS to manage key company activities: paper, natural gas, mining and electric companies, for instance, manage large leasing databases and must analyze resource extraction and management activities across large areas in the Commonwealth.

- End user requirements:
  - Data query and searching capabilities based on geographic or keyword searches.
  - Metadata visualization tools describing the data owner, accuracy, currency and constraints associated with each data set.
  - Access to GIS datasets available using authenticated access. Access could be provided as an authenticated link back to data owner FTP or a repository hosted by another organization.