

## Recommendations of the Internet Mapping Subcommittee

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Recommendations by category: \_\_\_\_\_

1. Planning and Management
  - ◆ Agencies should include MeGIS and other affected agencies early in the IMS development process
  - ◆ GIS Executive Council should authorize a Subcommittee to meet this summer to review rates for IMS services and update rates as needed to cover current and new services
  - ◆ The GIS Executive Council needs to monitor Internet security issues associated with IMS applications relative to changes in the state firewall security policies
  - ◆ The GIS Executive Council should explore InforMe's role in providing IMS services to the public
2. Infrastructure to support internet mapping development – intranet and internet
  - ◆ Optimize deployment of servers, software and databases for performance and cost-effectiveness (includes supported data formats)
  - ◆ Monitor changes in technology and user demand, and adjust as needed
  - ◆ Expand development environment and support services to support rapid development and publication of WAN and Internet applications
  - ◆ Study and make recommendation concerning use of middleware to facilitate application development and integration of IMS services with business databases
  - ◆ Develop fail over capacity to ensure 24X7 service
3. Exploring geospatial data
  - ◆ Implement Geospatial One-Stop scripts and templates to expand clearinghouse capabilities for posting data, data discover and data usage through IMS based browser/viewer (currently underway by MeGIS using federal and GeoLibrary funds)
4. Using and rendering geospatial data
  - ◆ Standardize data formats for IMS usage
  - ◆ Applications should draw from published sources being managed directly or indirectly by the owner to ensure current data is viewed.
  - ◆ All data being published through IMS should be published with full metadata in the clearinghouse unless the data source is sensitive or protected by statute

- ◆ Agencies need to establish standards for the use and representation of agency data through Internet mapping applications and map services
  - ◆ Establish standard map services by ISO theme grouping – base map and agency services (currently underway by MeGIS using federal and GeoLibrary funds)
  - ◆ Make standard performance driven generalized layers available to be shared by agencies and their contractors with at least minimum FGDC metadata
  - ◆ Establish standard cartography/symbology for data to be published through IMS (currently underway by MeGIS using federal and GeoLibrary funds)
5. Shared applications and tools
- ◆ develop base maps and base map Internet services
  - ◆ develop templates to support rapid development
  - ◆ develop common internet security protocol and application for IMS applications
  - ◆ develop printing and other output tools (currently underway by MeGIS using federal and GeoLibrary funds)
6. Graphical user interface design
- ◆ standardize appearance and functionality of all state IMS applications
    - a. standard button placement and appearance
    - b. standard tools
    - c. standard look and feel
    - d. implement ADA requirements
7. Custom applications
- ◆ Document and publish list of languages and expertise available at agencies
  - ◆ create code library or method for agencies to share tools that has been developed
  - ◆ require that all application code developed under contract becomes public domain and is documented
  - ◆ require development and update documentation for applications developed in-house and by contractors
8. Development standards and guidelines
- ◆ Publish state IMS development standards and guidelines based on existing state standards and data management practices. This should include a reference to much of the material in the items above.
  - ◆ Publish standard contract language to facilitate application development and use of standards and guidelines
  - ◆ Develop method to collect and publish an ongoing inventory of applications, development methods and documentation

