

SERVICES AND ENTERPRISE SUPPORT ADMINISTRATION



Geospatial Data and Services (GIS)

Request	FY16	FY17	15-17
FTE	5.0	5.0	5.0
GF-State	\$525,000	\$525,000	\$1,050,000
Total	\$640,000	\$640,000	\$1,280,000

DECISION PACKAGE SUMMARY

The Services and Enterprise Support Administration requests software, hardware, and staff to maintain an enterprise Geographic Information System (GIS) infrastructure and provide GIS services for internal agency partners. By funding this request, SESA is expected to achieve critical agency priorities using geospatial data and services, and meet strategic IT goals for open data that is more accessible to agency staff and the public through cloud technology and mobile applications.

PROBLEM STATEMENT

A recent agency-wide assessment determined that all DSHS program areas have business needs that require GIS; yet, the agency lacks an adequate GIS infrastructure to support these needs. Individual programs have attempted to establish their own GIS capacity without the necessary expertise and with duplication of effort and expenditures. All DSHS administrations have agreed that it would be best practice to establish an enterprise GIS approach.

Development of an enterprise GIS solution is underway, but sustainable funding is needed. Without funding and FTEs, opportunities will be missed to:

- Achieve DSHS and State strategic objectives that have GIS interdependencies;
- Modernize DSHS applications and services using location information and analytics;
- Provide DSHS open geospatial data and mobile-compatible web mapping solutions; and
- Build a scalable GIS infrastructure for the agency.

PROPOSED SOLUTION

The solution is to establish and maintain an enterprise GIS. The requested \$1,280,000 would pay for:

- 5 FTEs to manage, develop, implement, and support the enterprise GIS infrastructure;
- 12 virtual machines and 2 SQL Server databases for GIS server framework;
- Cloud-based storage and services for internal and external GIS data distribution; and
- Enterprise-level GIS desktop and server software for agency-wide use.

Without full funding to maintain the enterprise GIS, it would result in poorer system performance, lost efficiencies, missed strategic objectives and business needs, and the overall cost of GIS for the agency would exceed that of the enterprise GIS solution.



DSHS VISION

People are healthy • People are safe • People are supported • Taxpayer resources are guarded

DSHS MISSION

To transform lives

DSHS VALUES

Honesty and Integrity • Pursuit of Excellence • Open Communication • Diversity and Inclusion • Commitment to Service

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EXPECTED RESULTS

This decision package will help connect clients to services; protect vulnerable clients; support program and payment integrity, and improve case management and facility planning. Specifically, this budget supports:

DSHS Goal 3: Protection – Each individual who is vulnerable will be protected. The decision package is essential to supporting SESA Strategic Objective 3.1: Detect circumstances that may indicate exposure of vulnerable persons to sex offenders by linking addresses of vulnerable client and sex offenders.

DSHS Goal 4: Quality of Life - Each individual in need will be supported to attain the highest possible quality of life. The decision package is essential to implementing GIS capability that identifies provider gaps and support transition from facility to community care by identifying nearest in-home care providers to support AL TSA Strategic Objective 4.2: Increase the number of individuals AL TSA is able to assist in transitioning to their homes or the community from nursing homes; and DDA Strategic Objective 4.3: Increase opportunities for individuals who are institutionalized to have the option to move to the community and be supported as needed.

DSHS Goal 5: Public Trust – Strong management practices will ensure quality and efficiency. The decision package is essential to implementing GIS capability to support ISSD Strategic Objective 5.10: Take advantage of the State's open-data sites to post appropriate data sets, increase the number of geographic data layers posted on geographic.wa.gov, and support the agency's use of GIS data; and ISSD Strategic Objective 5.11: Use existing governmental and private resources to make it easier for Washingtonians to interact with the agency, using GIS capabilities to show consumption and availability of agency services.

Results Washington Goal 4: Healthy and Safe Communities – The decision package is essential to implementing analytic GIS services to help the most vulnerable people become independent and self-sufficient; and increase those that are served in home- and community-based settings.

Results Washington Goal 5: Effective, Efficient, and Accountable Government – The decision package is essential to implementing: responsible spending and LEAN by eliminating redundant GIS efforts/expenditures; and transparency by increasing availability of downloadable/searchable GIS data.

State Strategic Technology Objectives:

- Mobility: The decision package is essential to implementing more accessible DSHS services that use location-based information and technology.
- Open and Transparent: The decision package is essential to implementing open DSHS geospatial data for public consumption.
- Modernization and Innovation: The decision package is essential to implementing a re-engineered GIS infrastructure that uses cloud technology that is faster and scalable.
- Security: The decision package is essential to implementing mechanisms for secure public access and handling of confidential GIS data and applications.

STAKEHOLDER IMPACT

The stakeholders consist of all eight DSHS administrations. Establishment of an Enterprise GIS was unanimously endorsed and approved by the stakeholders.



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