



GIS & FMIS

IMPLEMENTATION & SUPPORT SERVICES

GEOGRAPHIC INFORMATION SYSTEMS

FACILITIES MANAGEMENT INFORMATION SYSTEMS

SELECTED CLIENTS

- U.S. Department of Health and Human Services
- U.S. Department of Defense
- State of Maryland
- Government of the District of Columbia
- Charles County, Maryland
- Fairfax County, Virginia
- Town of Laurel, Maryland
- Town of La Plata, Maryland
- Eastern Shore Gas

WHO WE ARE

Spatial Systems Associates, Inc. (SSA) is a small business located in Columbia, Maryland along the I-95 corridor between Washington, DC and Baltimore, Maryland. Established in 1995, SSA has been providing Geographical Information Systems (GIS) implementation and support services for federal, state, county, municipal and commercial clients in the mid-Atlantic region, utilizing Environmental Systems Research Institute (Esri) technology since its inception.

Within the last several years, SSA has additionally turned its attention inside the building envelope, and is now providing Facility Management Information Systems (FMIS) implementation and support services to many of these same clients. Utilizing the same fundamental Esri tools, SSA has developed an internet-based FMIS approach that not only “maps” building interiors and applies space and furniture/equipment inventory and management techniques to the buildings, SSA also monitors energy consumption, water consumption, and indoor environmental quality characteristics (temperature, humidity, light, noise, CO₂ levels, etc.) to provide a system that will capture and report information on a real-time basis to the facility manager, while collecting and storing data for analysis or for reporting as part of LEED® certification and commissioning. Building on the Esri platform, we provide services and support to our clients in the following areas:

- Consulting
- Data Development
- Data Capture
- Field Collection
- Application Development
- Analysis and Cartographic Production
- Training
- Internet hosting

Designing & Building Enterprise GIS

GIS SERVICES

■ **Consulting**

Interviews
Business Process Analysis
Return on Investment (ROI) Studies
Presentation to Management

■ **Internet Map Service and Website Development and Deployment**

■ **Application Development**

GUI Development
Avenue-based and Visual Basic Toolkits and Applications
Conversion/Integration of Existing Programs

■ **Data Development**

Acquisition/Processing of Aerial Photography or LiDAR Data
Database/Geodatabase Design
Scanning/Registration
Vectorization
Attribution

■ **Field Data Collection**

■ **Analysis and Cartographic Production**

■ **Training**



Tools for Facility Management & Sustainability



FMIS SERVICES

Facilities Monitoring & Site Characteristics

- Energy Consumption
- Water Consumption
- Indoor Environmental Quality
 - Temperature
 - Humidity
 - Carbon Dioxide
 - Light
 - Video

Analysis & Reporting of Collected Data

- Energy Use by Subsystem
 - HVAC
 - Lighting
 - Elevator
 - Process (duplex receptacles)
- Energy use by Tenant/Building Occupant
- Water Use
- Indoor Environmental Quality Monitoring & Analysis

Alerts When Values Fall Out of Bounds

LEED® Certification Assistance

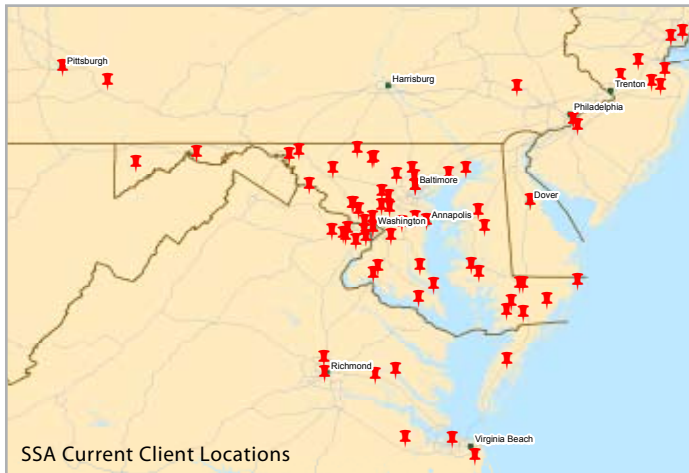
- Analysis of Existing Buildings
- Assistance to Owners Related to the Pursuit of LEED® Credits
- Data Collection
- Coordination with USGBC

Commissioning Assistance

Space Utilization Analysis

Asset Inventory





HOW TO CONTRACT FOR OUR SERVICES

Spatial Systems Associates, Inc. provides its services both on a time-and-materials basis and a firm fixed-price basis, depending on the task and our client's needs.

SSA's services are available to Maryland state agencies and county and local governments, via a Department of Budget and Management Consulting and Technical Services (CATS) contract. Details are available at <http://www.dbm.state.md.us> by clicking *Contractors*. Federal agencies, as well as state and local governments are invited to use our GSA Schedule 899. Virginia state and local government agencies and Washington COG members may prefer to use our Fairfax County IT Services Open Task Order Contract.

Non-government clients are invited to discuss their service requirements with us.

SPATIAL SYSTEMS ASSOCIATES, INC.

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