

## Geographic Information Systems (GIS)

ARRO is a recognized leader in utilizing GIS technology to create engineering solutions for the clients we serve. Our experienced professional staff has the skills and knowledge to apply GIS technology to solve challenging problems and provide critical information to decision-makers in private and public settings. We can help you make the most of GIS in order to increase productivity and make more accurate, timely decisions.

We understand that our reputation rests on committing to our clients, anticipating their needs and staying ahead of their expectations.

### GIS SERVICE AREAS

- Water/wastewater systems
- Traffic/transportation
- Land use applications
- Natural resource management
- Industrial/commercial uses
- Emergency services

### CUSTOMIZED SOFTWARE APPLICATIONS

- Permit tracking system
- Workload management system
- Pavement management system
- Natural resource management system
- Hydraulic modeling utility
- Land development tracking system
- Billing system
- Sign maintenance tracking system
- Fire department/emergency services preparation system



### ARRO ADVANTAGE

- Professional, responsive service and reliable project management
- Service-oriented GIS implementation and technical support
- Customized tools and applications
- Cutting-edge technology and equipment

#### Corporate Headquarters

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## GIS CAPABILITIES

### *Water/Wastewater Systems*

- Infrastructure management
- Hydraulic modeling
- Act 537 planning
- Utility service area planning
- Capital improvements planning/budgeting

### *Traffic/Transportation*

- Roadway/pavement management
- Sign inventories
- Snow plow routes and scheduling
- Capitol improvements planning/budgeting
- Highway occupancy permit tracking

### *Land Use Applications*

- Comprehensive planning
- Zoning
- Subdivision and land development
- Parcel mapping
- Tax assessment
- Economic development
- Historic/archaeological planning

### *Natural Resource Management*

- Environmental planning
- Tree conservation management
- Riparian corridor protection
- Water quality protection

### *Industrial/Commercial Uses*

- Facility/infrastructure management
- Regulatory compliance
- Distribution network management
- Location feasibility evaluations

### *Emergency Services*

- Emergency response planning
- Crime analysis
- COMSTAT implementation

## CUSTOMIZED SOFTWARE APPLICATIONS

### *Permit Tracking System*

- Building permits
- Inspection monitoring
- Contractor licensing
- Complete procedural tracking
- Certificate of occupancy
- Automated letter and report generation

### *Workload Management System*

- Employee time tracking
- Job progress monitoring
- Material and equipment management
- Improved employee allocation

### *Pavement Management System*

- Material tracking/monitoring
- Maintenance management
- Project budgeting
- Reduced project administration time
- Material specification controls

### *Natural Resource Management System*

- Promote environmental protection
- Tree conservation management
- Resource maintenance monitoring

### *Hydraulic Modeling Utility*

- Sewer and water service planning
- Infrastructure assessment
- Feasibility studies
- Utility service management

### *Land Development Tracking System*

- Complete procedural monitoring/documentation
- Report generation
- Deadline notification
- Fee monitoring

### *Billing System*

- Automatic bill generation
- Daily deposit tracking
- Automatic interest calculations
- Delinquent account tracking
- User-friendly payment tracking capabilities

### *Sign Maintenance Tracking System*

- Sign repair/replacement monitoring
- Work order generation
- Reporting techniques to accelerate repairs

### *Fire Department/Emergency Services Preparation System*

- Retrieve occupant and site/structural information on demand
- Store and retrieve documents and images of locations
- Access structural information with ease in the event of an emergency

**OUT IN FRONT** 

## ABOUT ARRO

ARRO is a full service engineering and environmental consulting firm employing more than 130 professionals in offices located throughout the mid-Atlantic region. Our success, shared with the clients and communities we serve, can be summed up in one message: **we stay out in front.**