

Statewide Contract for Technical Services

Contact:
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GROUP



January 6, 2010

Ms. Jo Ann Adkins
Department of Administration
Purchasing Department
Building 15
2016 Washington Street, East
Charleston, WV 25305

Dear Ms. Adkins:

Timmons Group is pleased to present our proposal for supplemental staffing services and project based technical services for the West Virginia Office of Technology (WVOT). We welcome the opportunity to work with you and look forward to developing a long-term relationship with your organization.

Timmons Group, an ENR 500 Professional Services firm, has more than 56 years serving the government and private industry. Timmons Group is nationally-recognized leader in GIS services for outstanding work. For nearly twenty years, our GIS team has been providing solutions to state and local governments.

We thank you for this opportunity to provide a proposal for supplemental staffing services and project based technical services for the West Virginia Office of Technology (WVOT).

Sincerely,

Russell Minich
Principal, Geospatial Solutions

Enclosures

117 S. 14th Street, Suite 303 | Richmond, Virginia 23219

TEL 804.521.1065 FAX 804.521.1068

Site Development | Residential | Infrastructure | Technology

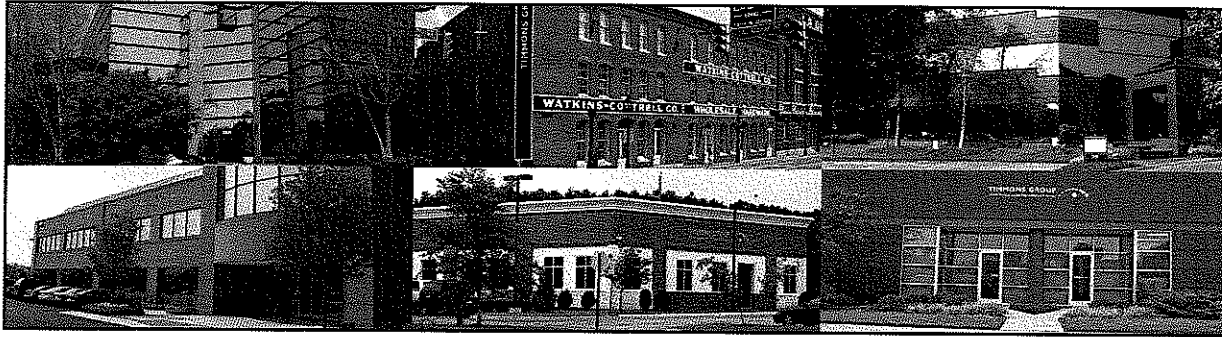
www.timmons.com

Table of Contents

Section I - Timmons Group Corporate Description.....	1
Office Locations and Company Information	1
Main Contact Information	2
Date Company was Established	2
Full-time Employees as of November 1, 2009	2
Company History	2
GIS & Geospatial Technology.....	2
GIS Disciplines	3
Timmons Group – Providing Value to Clients and Partners	3
Financial Stability and Resources	3
Section II – Supplemental Staffing Qualifications and Experience	4
GIS SERVICES CATEGORY	4
Introduction.....	4
GIS Services Client References.....	4
Similar Project Experience	4
GIS Staffing Qualifications	7
Section III – Service Category.....	17
Attachment 5: ELECTRONIC COMMERCE	17
Introduction.....	17
GIS Services Client References.....	17
Similar Project Experience	17
Attachment 8: TECHNOLOGY ADVISORY SERVICES	22
Introduction.....	22
Delivery Method.....	22
GIS Services Client References.....	22
Similar Project Experience	22
Appendix – Signed Forms	
Purchasing Affidavit	
Exhibit 10	

Section I - Timmons Group Corporate Description

Office Locations and Company Information



Corporate Headquarters, VA
1001 Boulders Parkway, Suite 300
Richmond, VA 23225
Tel. 804.200.6500
Fax. 804.560.1016
Federal Tax ID: 54-1301413

Downtown Richmond, VA Office

117 S. 14th Street, Suite 303
Richmond, VA 23219
Tel. 804.521.1065
Fax. 804.521.1068

Tri-Cities, VA Office

4260 Crossings Boulevard
Prince George, VA 23875
Tel. 804.458.8685
Fax. 804.751.0798

Northern VA Office

20098 Ashbrook Place, Suite 195
Ashburn, VA 20147
Tel. 703.726.1342
Fax. 703.726.1345

Charlottesville, VA Office

919 Second Street SE
Charlottesville, VA 22902
Tel. 434.295.5624
Fax. 434.295.8317

Virginia Beach, VA Office

208 Golden Oak Court, Suite 230
Virginia Beach, VA 23452
Tel. 757.213.6679
Fax. 757.340.1415

Raleigh, NC Office

5410 Trinity Road, Suite 112
Raleigh, NC 27607
Tel. 919.866.4951
Fax. 919.589.5663

Greensboro, NC Office

8642 W. Market Street, Suite 136
Greensboro, NC 27409
Tel. 336.662.0411
Fax. 336.662.0420

Charlotte, NC Office

2030 South Tryon St., Suite 3C
Charlotte, NC 28203
Tel. 704.376.1073
Fax. 704.376.1076

Main Contact Information

Russell Minich
117 S. 14th Street
Richmond, VA 23219
Tel.: 804.516.3926 (Direct)
Tel.: 804.521.1065
Fax: 804.521.1068
Email: Russell.minich@timmons.com
Web Sites: www.timmonsgis.com and www.timmons.com

Date Company was Established

Timmons Group has been an established firm since 1953.

Full-time Employees as of November 1, 2009

As of November 1, 2009, Timmons Group has 238 full-time employees.

Company History

Timmons Group is a well established 240-person professional consulting firm providing GIS and surveying and engineering consulting services to state, local, tribal, federal and private clients throughout the USA. Our GIS service offerings include requirements definition, strategic planning, implementation planning, infrastructure design, database design, data model development, application development, data conversion, field data collection, GIS web development, system integration and implementation. Our reputation for offering quality technology services to our clients has earned many repeat clients and numerous ESRI awards.

Timmons Group is a national leader in innovative technology products and services. Inspired by your vision, our client service teams solve technology challenges in imaginative and cost-effective ways. Our extensive experience in providing geospatial based solutions for state and local governments enables us to offer you an excellent mix of experience and proven processes for the development of a comprehensive economic development website.

For nearly two decades, we have been the proud recipient of numerous national and regional awards and honors. Ranked in Engineering News-Record's (ENR) list of the nation's "Top 500 Design Firms" for over 20 years, we are tremendously honored to receive such recognition and are committed to delivering on the promise of dedicated service and innovative leadership, now and in the future.

GIS & Geospatial Technology

For 22 years, we have developed GIS based technology solutions for state and local governments. We have gained significant experience in state and local business processes through our many projects. We offer a professional project staff with the experience and ability required to ensure a successful enterprise GIS planning and implementation. We have been involved with numerous successful GIS development projects and look forward to sharing our ideas and solutions for this project.

Our firm employs a broad range of subject-matter experts across all areas of information technology and geospatial technologies. From our GIS technicians to our database managers, programmers, systems engineers, consultants and



Mobility Solutions

project managers, our award-winning team prides itself on its unique ability to understand your vision and our ability to you a solution tailored to your mission-critical business requirements.

GIS Disciplines

- Advanced Technology & Applications Development Solutions
- Economic Development Solutions
- E-911 and Public Safety
- GIS and Geospatial/GPS Field Inventory/Assessment Solutions
- Infrastructure/Utilities Solutions
- Land Records Solutions
- Forestry and Land Management Solutions
- Transportation Geospatial Solutions

Timmons Group – Providing Value to Clients and Partners

For nearly two decades, Timmons Group has been the proud recipient of numerous national and regional awards and honors. Our reputation for offering quality technology services to our clients has earned many repeat clients and numerous ESRI GIS awards including:

- ESRI Foundation Partner of the Year 2008
- ESRI Business Partner of the Year in 2003
- ESRI Special Achievement in GIS award winner 2006
- ESRI Foundation Partner of the Year in 1999

Financial Stability and Resources

Timmons Group has been in business since 1953 and is recognized as one of the leading multidiscipline consulting engineering firms in the United States. Headquartered in Richmond, Virginia, we employ nearly 240 professionals and associated support staff in a number of offices located throughout Virginia and the Atlantic seaboard. Our firm's size and multidiscipline capabilities enable us to deliver on a wide range of projects from planning and conceptual design all the way through final design and implementation for both public and private sector clients. We enjoy a solid financial posture with annual billings in excess of \$35 million and shareholder equity in excess of \$4 million. Our firm has been financially solvent for 57 years and our solvency is based on fiscal restraint and cash reserves adequate to support operations without incurring any long-term debt. We have sustained growth over the past several years in gross revenues and workload. This stable environment sets the stage for our continuing operations for the foreseeable future as a financially-viable corporate entity.

Section II – Supplemental Staffing Qualifications and Experience

GIS SERVICES CATEGORY

Introduction

Timmons Group provides geospatial development services for state and local governments throughout the United States. Our services are offered through supplemental staffing and project based engagements. For this proposal we offer a selection of staff that can provide comprehensive geospatial development services from planning through implementation and support.

GIS Services Client References

Perhaps the best measure of our capabilities is our extensive list of repeat clients. We believe that this indicates client satisfaction relative to our performance. Our experience on similar contracts has allowed our project team members to develop good working relationships as partners with our clients. Shown below are the client references for the GIS Services Category.

Steve Marzolf, Integrated Services Program Director
Virginia Information Technologies Agency
Commonwealth Enterprise Solutions Center
11751 Meadowville Lane
Chesterfield, VA 23836
804.416.6019 (voice)
866.4VA.E911 (toll free)
steve.marzolf@vita.virginia.gov

Eddie Childers Jr.
GIS Program Manager
City of Richmond Public Utilities
Technical Services Division
400 Jefferson Davis Hwy.
Richmond, VA 23224
Office (804) 646-8534.
Eddie.Childers@richmondgov.com

Similar Project Experience

The following pages include examples of projects where Timmons Group provided staffing resources to assist our clients with GIS Services.

VITA ENTERPRISE GIS STRATEGIC BUSINESS PLANNING

COMMONWEALTH OF VIRGINIA, INFORMATION TECHNOLOGY AGENCY

Client Commonwealth of Virginia, Information Technology Agency
Contact Steve Marzolf Virginia Information Technologies Agency 11751 Meadowville Lane Chester, VA 23836
Duration of Project 6 months
Project Value \$90,000
Type of Employees GIS Planning and Operational Design Staff

PROJECT SUMMARY

The Virginia Information Technologies Agency (VITA) and the Chief Information Officer of the Commonwealth contracted with Timmons Group for the development of a Strategic Business Plan for the provision and operation of enterprise GIS services for the Commonwealth of Virginia.

Project Objectives

Timmons Group project objectives were; Evaluate the current information technology resources and uses in the Commonwealth, provide a comprehensive inventory of geospatial information systems resources in 20 Virginia State agencies, evaluate technical issues that could impact the delivery of services, make recommendations for improvement in operations, existing resource usage, IT infrastructure, and data maintenance, and identify metrics to measure service delivery performance.

The result of this project is a comprehensive analysis and plan to guide future geospatial information technology infrastructure use within the commonwealth.

Project Tasks

- Development of questionnaires
- Conducting meetings with key stakeholders and operational personnel
- Research, analysis, and reporting on "best practices" from other States
- Analysis and assessment of existing technology applications (uses), data resources, and IT infrastructure (hardware / software / networking).
- Analysis and assessment of technical skill requirements and the existing staff resource ability to meet the requirements in a timely manner.
- Development of recommendations for improvements in process, data, and infrastructure to reduce cost, improve services, and increase systems reliability and security

Project Deliverables

- Questionnaires
- Meetings with individual state agencies
- Community meetings
- Analysis reports and spreadsheets
- Power point presentations for community meetings
- Summary power point presentation of project results
- Detailed power point presentation of project results

DATA STAFF AUGMENTATION SERVICES

CITY OF RICHMOND, VA

Client

City of Richmond, VA

Contact

Eddie Childers Jr.
GIS Program Manager
City of Richmond Public
Utilities
Technical Services Division
400 Jefferson Davis Hwy.
Richmond, VA 23224
Office (804) 646-8534.
Eddie.Childers@richmondgov.com

Duration of Project

3 months

Project Value

\$50,000

Type of Employees

GIS Data Conversion and
Collection

PROJECT SUMMARY

The City of Richmond, VA Department of Public Utilities contracted with Timmons Group to provide geospatial staff to assist the DPU GIS Program with Water, Sanitary, Gas, and/or Streetlight mapping GIS Quality Control and Assurance (QA/QC) review.

Project Objectives

The City of Richmond, Virginia's Department of Public Utilities (DPU) is in the final phases of a multi-phased Geographic Information System (GIS) data conversion of its gas, water, wastewater and street lighting systems. As a key effort of the enterprise geographic information systems initiative, the DPU data conversion project – when complete - will enable the City to continue to provide efficient and responsive utilities service to businesses and residences in Richmond and the surrounding Counties of Henrico, Chesterfield and Hanover.

The DPU provides a variety of utility services directly to Richmond residents. As one of the largest water producers in Virginia, Richmond serves approximately 61,000 individual customers and three wholesale customers. Its wastewater treatment plant, the largest in Virginia, serves nearly 60,000 customers. The DPU is the eighth largest municipally-owned natural gas utility in the country, with more than 1,700 miles of gas mains and more than 100,000 residential, commercial and industrial customers. Richmond's Street

Light utility operates and maintains more than 37,000 streetlights and the City's streetlight electric distribution system. The City tasked Timmons Group to provide its Geospatial Expertise across all of DPU service areas to assist in the quality control and assurance aspects of the consultant's GIS deliverables.

GIS Staffing Qualifications

The table below summarizes the representative staffing skill sets. The staff resumes shown on the following pages provide a brief synopsis of the kinds of staff we have available for your use.

Staff	GIS Planning Services						Application Development					GIS Data Conversion			
	Strategic Planning	Needs Assessments	Prep. User Requirements	Cost/Benefit Analysis	Feasibility Study	Implementation Plan	Custom Web Based GIS App	Geodatabase and UML	ArcGIS Server	ArcGIS Mobile	GP Tools	Digitizing	Projection / Transformation	Georeferencing / Reformatting	Scanning / Georeferencing
Amy Walters	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Amy Zeck							X	X	X	X	X	X	X	X	X
Andy Fox	X	X	X	X	X	X	X	X	X	X	X				
Chris Gerecke	X	X	X	X	X	X	X	X	X	X	X				
George Simpson		X	X			X	X	X	X	X	X				
Lowell Ballard	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Randy Trott	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Russell Minich	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

RUSSELL MINICH – PRINCIPAL IN CHARGE

Education

BBA, Roanoke College, 1984

MBA, Virginia Commonwealth University, 1995

VA Certified Project Management, 2006

Training

Project Management Certification

ArcGIS Training

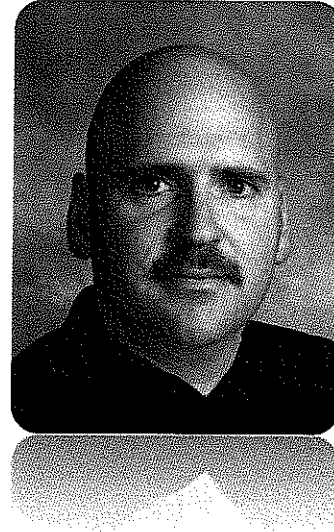
ARC/INFO GIS Training

Affiliations

President, Virginia Association of Mapping and Land Information Systems

Years of Experience
22

Mr. Minich is Principal In Charge of the E-government Technology Sector for Timmons Group. Russell has over 22 years of experience in all facets of the planning, design, procurement, installation, and implementation of geospatial related projects for government and private industry clients. His leadership experience in GIS, GPS, E-911 and transportation projects provides a valuable knowledgebase and benefit to our clients. Russell and his team of infrastructure, public safety, transportation, planning, finance, geographic information systems and information technology subject matter experts are committed to fulfilling our client's business requirements through the use of geospatial technology and tool.



SUMMARY OF WORK EXPERIENCE

Principal in Charge/Consultant, Development of a Comprehensive Economic Development Website, Allegheny Highlands Economic Development Corporation

Responsibilities included overall project performance, business requirements consulting, and website product development. This project focuses on the design, development, and deployment of comprehensive Internet application designed to enhance the ability to attract and promote business within the Allegheny Highlands region. This includes advanced spatial analysis, reporting, property selection, demographic analysis and exporting of data.

Principal in Charge, GIS System Review and Planning – York Region, Canada

Responsibilities included overall project performance and project success. This project focuses on geospatial systems architecture review and planning. The intent is to plan and implement the next evolution of the Corporate Geospatial Information Infrastructure (CGII) to support anticipated business solutions, increased systems integration and increased service reliance.

Principal in Charge/Consultant, VDOT Customer Web Portal Development – Virginia Department of Transportation (VDOT)

Responsibilities included overall project performance, business requirements consulting, and website product development. This project included the design, development, and

deployment of an internal facing knowledgebase portal for VDOT customer service staff. It includes an integrated spatial and non-spatial user interface that provides a common operating knowledgebase deployed throughout the Commonwealth.

Principal in Charge/Consultant, VDOT Enterprise Data Strategic Plan – Virginia Department of Transportation (VDOT)

Responsibilities included overall project performance, business requirements consulting, and final product presentation. This project included a comprehensive review of all major VDOT geospatial business processes and the impact of GIS on their respective operations. The final product included a report and presentation of the strategic data recommendations and benefits for each of the major business operation.

Consultant, VDOT Enterprise GIS Strategic Planning – Virginia Department of Transportation (VDOT)

Responsibilities included systems planning and specification, data gathering, needs analysis, and report preparation to support development of an Enterprise GIS strategic plan. Plan development tasks include; review of the 10 year GIS strategic plan done in 1996, information collection through a series of interviews with key business managers and operational staff, an assessment and analysis of the current status of GIS technology usage, benchmarking though collection and review of "best practices" within national DOTs, development of goals for GIS integration

RUSSELL MINICH (cont.)

and use, development of strategic and tactical recommendations to achieve the goals, presentation of the strategic plan.

Principal in Charge/Consultant, GIS Website Development - Appomattox County, VA

Responsibilities included overall project performance, business requirements consulting, and website product development. This project included the design, development, and deployment and hosting of a GIS website for County staff and citizens. It includes integration with Assessors data, E-911 mapping, and Google Street View.

Principal in Charge/Consultant, GIS Website Development - Amherst County, VA

Responsibilities included overall project performance, business requirements consulting, and website product development. This project included the design, development, and deployment and hosting of a GIS website for County staff and citizens. It includes integration with Assessors data, E-911 mapping, and Google Street View.

Principal in Charge/Consultant, GIS and Implementation Plan – City of Corvallis, Oregon

Responsibilities included overall project performance, business requirements consulting, and final product presentation. This project included a comprehensive review of all major City geospatial business processes and development of recommendations for migrating to an Enterprise GIS environment. The final product included a report and presentation of the strategic recommendations and benefits for transitioning to an Enterprise GIS environment.

Principal in Charge/Consultant, ArcGIS Server Replication for Automated E-911 Data Update – Harrisonburg/Rockingham Emergency Communication Center, Virginia

Responsibilities included overall project performance, business requirements consulting, and final product presentation. This project included the design and implement a solution that supports near-real time Geospatial updates of critical infrastructure for the local, regional, and statewide emergency response. The final product included the solution implementation at the local GIS, regional PSAP, and statewide data GIS data clearinghouse.

Principal in Charge/Consultant, VBMP Road Centerline Maintenance – Virginia Information Technology Agency (VITA)

Responsibilities included systems planning and specification, project management, coordination of a team comprised of public and private sector staff, State and local government coordination, and financial management. This project included road update information collection, standardization, and maintenance for 156 Virginia local governments and the Virginia Department of Transportation.

Consultant, Virginia Statewide Enterprise GIS Study – Virginia Information Technology Agency (VITA)

Responsibilities included systems planning and specification, data gathering, needs analysis, and report preparation for 21 major GIS data users and providers within the Virginia State government.

Principal in Charge, Appomattox County, Virginia GIS/E-911 Development

Responsibilities include overall project coordination, client coordination and resource management. The project tasks include planning, development, and deployment of County level GIS data and PSAP equipment to support wireless and wireline E-911, emergency services response, county planning and analysis applications.

Principal in Charge, Virginia Economic Development Partnership Statewide Water and Sewer Facility Inventory Project

Responsibilities include overall project coordination, client coordination and resource management necessary support VEDP's efforts to develop a statewide GIS-based water and sewer utility system inventory and mapping to support economic development efforts in Virginia. Timmons Group engineering and GIS personnel performed a Statewide inventory of existing utilities data sets, collected and converted existing digital and hardcopy utility maps into an ARC/INFO GIS format, and integrated source data from Virginia localities.

LOWELL BALLARD – SENIOR CONSULTANT

Education

BS, Management Information Systems, Radford University, 1989

MS, Biology (Aquatic Ecology), Virginia Commonwealth University, 1995

Experience

20 Years

Affiliations

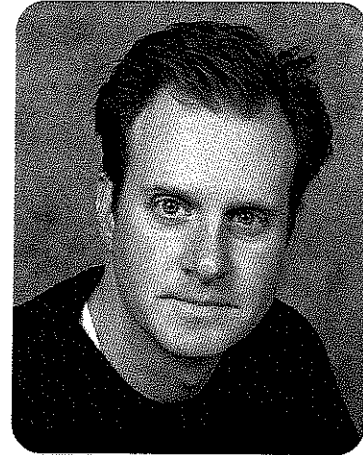
Virginia Associate of Mapping and Land Information Systems, Technology Committee Chair

VITA Committee for GIS Technology

Lowell Ballard has considerable experience in GIS consulting and systems design. This experience is gained through his work with Federal, State, Regional and local governments and private industry. His capabilities include: GIS system architecture design, process analysis, software application architecture and development, project management and implementation.

Lowell's responsibilities as the Director of Geospatial Solutions include:

- Managing all technical aspects for client
- Performing technical needs assessments and documenting data and work flows
- Integrating GIS data with other non-spatial / business systems
- Defining hardware and software requirements based on functional requirements
- Developing and managing data conversion methodologies for GIS/CADD projects
- Define interface specifications / styles for applications



SELECT PROJECT EXPERIENCE

Wisconsin Department of Natural Resources – Needs Assessment / Requirements Definition / Architecture Development

Lowell served as lead technical consultant on a GIS-centric ArcGIS Server land management application. The project involved the interviewing of multiple disparate users across the organization, refinement and development of functional requirements, prototype development and supporting architecture consulting. The client desired to implement an ArcGIS Server geospatial application. Timmons Group was selected through competitive bid to architect the business and technical requirements to support a 7-phase application development project.

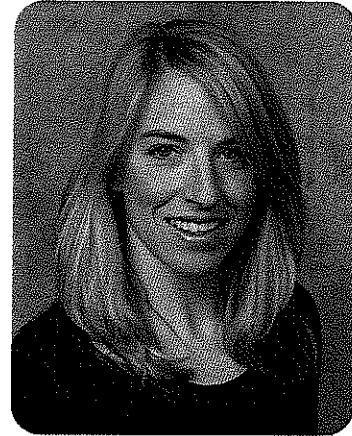
Virginia Department of Forestry (VDOF) – Enterprise System Design and Application Architecture Development

Lowell was the lead analyst and architect for VDOF's Integrated Forest Resource Information System (IFRIS). Consulting efforts included the capture and analysis of the existing data, workflows and information architecture within VDOF. This analysis culminated in a revised, Enterprise, approach to doing business within VDOF. Application requirements were developed along with formal functional requirements for each component module. This suite of components included GPS-enabled SQL CE-based field data collection devices, .NET Web-enabled Time and Accomplishment accounting modules, Reporting services and an advanced on-line forestry lands spatial management application.

Washington State Department of Historic Preservation (DAHP) – WISAARD Scoping and Development

Lowell served as the primary business and requirements definition consultant assisting DAHP in defining their needs for a GIS-based management solution. DAHP has many constituents and a disparate client-base. Additionally, they manage number databases both spatial and non-spatial. Timmons Group assisted them in defining their requirements and moving from a legacy database and mapping system to an updated architecture and content delivery system using GIS technology.

AMY WALTERS – PROJECT MANAGER



Education

BS, Environmental Science, Mary Washington College, 1997

Training

ESRI Certified

Training:

ArcGIS Server Administration

Microsoft Certified

Training:

SQL Server 2005 Administration

SQL Server 2000

Administration

ERDAS Certified

Training:

ERDAS IMAGINE

ERDAS IMAGINE

ESSENTIALS

Experience

12 Years

Amy Walters provides project management and technical instruction for GIS projects that include Replication, Application Development, Data Migration and Interoperability and Data Modeling. Amy has over 12 years of GIS specific experience including data development, data replication and interoperability and data conversion. She has been involved with various disciplines including environmental, storm water management, utilities and land records.

Specializing in data replication, interoperability and database design, Amy is working with various state and local governments on projects to provide real-time geospatial data access through replication and geodata services. These projects will improve the efficiency of all participants and greatly improve data sharing activities. She also manages GIS desktop and web based application projects that help localities and the public maintain, share and interact with GIS data.

SELECT PROJECT EXPERIENCE

Economic Development Website Development – Hanover County, VA

Project Manager/Data Consultant/Primary Client Contact for project resource management, website testing and delivery, project schedule coordination and project financial management. The site developed included advanced spatial analysis, reporting, property selection and exporting of data. The portal allows for the searching of multiple property types through an ergonomic interface focused on quick access to properties and comparison.

Data Consultant, State Board of Elections (SBE) Voter Registration Data Development – Statewide, VA

Responsibilities as Data Consultant were supporting the data development services as part of a State Board of Elections redistricting and data development project. Responsibilities included data acquisition, conflation and aggregation, project management, and multi-User database development for a statewide desktop and web-based editing environment.

Harrisonburg Rockingham Emergency Communications Center (HRECC) Automated Data Sharing and Integration – Rockingham County, VA

Project Manager for the HRECC project streamlines the process of providing the Public Safety Access Point (PSAP) with real time or near-real time geospatial updates of critical infrastructure and address layers. The process utilized ArcGIS Server replication to consolidate disparate data sets and facilitates the consumption of these layers into the PSAP's mapping system. As part of the project, data was replicated to State agencies for their use and the participating localities to allow access to state and local datasets via geodata services. Responsibilities included database set up and design, database replication configuration, and process modeling.

Geodatabase Migration – Various Localities

Provided technical consulting related to enterprise migration from various data formats to an ESRI enterprise Geodatabase. Tasks associated with these projects include providing technical support in the development of the data model, database, and workflows required to support a entity's GIS conversion and integration with other business units.

AMY ZECH – GIS ANALYST AND GEODATABASE DESIGNER

Education

Masters of Professional GIS, Curtin University of Technology, 2009

BS, College of Forestry and Wildlife, Forest Resource Management, 1998

Experience

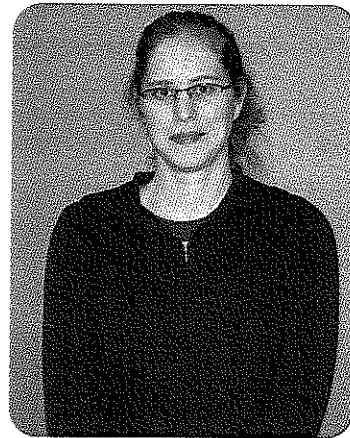
10 Years

Affiliations

Society of American Foresters

American Society of Photogrammetry and Remote Sensing

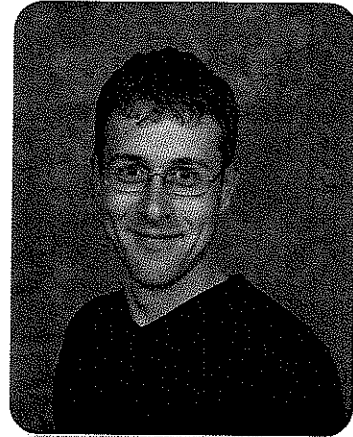
Amy Zech is a Data Modeling Specialist in Timmons Group's Geospatial Solutions Group. Amy performs a multitude of tasks related to the design, development, implementation and maintenance of systems, software, GIS, RS, GPS and data integration solutions. She is responsible for the development of simple applications and scripts, the design and production of maps and automated procedures, and the maintenance of GIS databases and related FGDC-compliant metadata. Amy's past experience includes database development, data analysis, technical support and training for various forestry companies. She has developed, implemented and documented GIS database standards. Amy has also performed various spatial analysis and data management for the support of forestry and wildlife issues, including property wide comprehensive watershed analysis program. She currently works on the development of custom tools and scripts to automate routine and repetitive tasks to increase efficiency and improve workflow.



SELECT PROJECT EXPERIENCE

- Provided GIS decision support and technical support for six forestry field offices (approximately 400,000 ac) and the regional support staff, including map production, data organization & development, training and data analysis
- Oversees the maintenance of the GIS databases to assure current and accurate information
- Develops, implements, and documents standard geodatabase design between field offices using VISIO and ESRI database import tools
- Develops custom tools and mapping automations using Visual Basic, VBA, Python, and ArcObjects
- Develops training class for field foresters, and quick reference materials for ArcMap and ArcCatalog
- Performs various spatial analysis for the support of forestry and wildlife issues
- Provides GIS analysis and map production as part of a five member GIS department of a private timber company
- Acquires, develops, organizes, designs, documents and maintains GIS datasets and perform spatial analysis for forestry, wildlife, roads, and hydrology departments
- Automates routine and repetitive tasks using ArcObjects and VBA
- Produces individual maps for public release and automates multiple map productions for fieldwork
- Develops and administers introductory ArcMap GIS training for client users and acts a first level of technical support for various department staff
- Migrates roads data maintained in coverage format to linear referencing geodatabase system

GEORGE SIMPSON – SYSTEMS ARCHITECT/DEVELOPER



Education

BS, Civil Engineering,
Virginia Polytechnic
Institute and State
University, In Progress

Experience

12 Years

Affiliation

Virginia Association of
Mapping and Land
Information Systems

Software

Competencies

- Visual Studio
- ESRI ArcObjects
- SQL Server
- Oracle/Oracle Spatial
- ArcGIS Server 9.x
- ArcGIS Engine SDK
- ArcSDE 8.x, 9.x
- ArcIMS 3.x, 4.x, 9.x
- ArcView 3.x

Programming

Languages

- Visual Basic /Visual Basic .NET
- Visual C#.NET
- JAVA/JavaScript
- ColdFusion
- TML/DHTML/CSS
- XML
- PL/SQL/T-SQL
- Silverlight

Mr. Simpson has considerable experience in designing, building and implementing custom GIS solutions through his work at Timmons Group. He is responsible for designing and developing the systems infrastructure (hardware, software, custom applications, etc.) to support geospatial systems and systems interoperability. He is also a representative expert for ESRI's ArcSDE and has consultant numerous clients, including multiple states and ArcSDE/Oracle implementations. George is ESRI Certified in ArcIMS, MapObjects and MapObjects IMS.

George's responsibilities include:

- Defining system requirements to support client business applications
- Design and implementation of geospatial databases to support client applications
- Review, design and implement hardware/software architectures for security, performance, scalability and reliability
- Developing custom applications to support end user requirements
- Implementing geospatial solutions
- Systems training and support

SELECT PROJECT EXPERIENCE

Washington State Department of Archeology and Historic Preservation - Architect/Developer

Provided consulting services to support the development of a secured geospatial web portal for the collection and analysis of historic sites throughout Washington State

- Requirements gathering and analysis
- System design – ArcGIS Server (ArcSDE)
- ArcGIS Server Implementation/Installation
- Application Development

State of Missouri Department of Conservation - Architect/Developer

Provided consulting services focusing on the design, setup and implementation of ArcSDE and Oracle

- Server configuration
- ArcGIS Server installation and tuning
- Architecture and work flow consulting
- System architecture consulting for their Oracle based system

Virginia Department of Conservation and Recreation (DCR) - Architect/Developer

George was the lead developer in a secured internet ArcIMS application for online project review. The application allows registered users to delineate proposed development boundaries. The boundaries are analyzed using environmental GIS data such as Threatened and Endangered Species and Conservation Lands. Database reports are e-mailed to the user and to DCR, notifying personnel of potential environmental conflicts. The application replaces the prior method of project review which entailed mounds of paperwork and hours of staff time.

ANDY FOX, PhD – SENIOR TECHNICAL CONSULTANT

Education

PhD, Geological Sciences, Cornell University, 1993

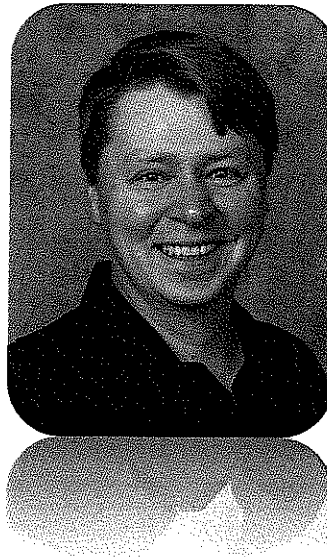
MSc, Geology University of Canterbury, New Zealand, 1987

BA, Geology, SUNY Geneseo, 1985

Experience

20 Years

Dr. Andrew Fox is a senior GIS technical project consultant within the firm's technology-based services group. He is the company's lead consultant for GIS needs assessments and strategic planning. As such, he is responsible for designing and deploying integrated land information solutions that utilize a range of technologies for local governments, including GIS, document management, and real property information systems (CAMA). He has extensive experience in GIS and other systems that manage land information for local governments, particularly with projects involving the integration of land record documents with GIS and other land information managed by Commissioners of the Revenue, Clerks of the Circuit Court and Treasurers.



SELECT PROJECT EXPERIENCE

GIS Needs Assessment and Implementation Planning – City of Manassas, Virginia

A comprehensive analysis of current information systems and needs for multiple City departments, including: IT, GIS, building, zoning, planning, Commissioner of the Revenue, public works, water utilities, electric utilities, economic development, police, and fire. The study included the hardware, software, data, network, staffing, financial, and implementation service components of an integrated, city-wide land information management solution.

GIS Needs Assessment and Planning - City of Fredericksburg, Virginia

A GIS needs assessment to establish the framework and plan for the City's continued GIS implementation. Project tasks include: GIS education, user interviews, evaluation of the current system (hardware, software, network), documents and other data, application and functional requirements, staffing and training needs, and project management.

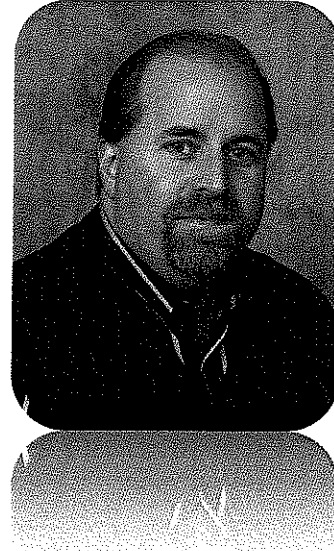
GIS Strategic and Implementation Planning Services - Fort A.P. Hill, VA

Fort AP Hill is a Virginia-based regional training center that has many of the same service departments and needs of a small city, such as police, fire, public works, planning and . Timmons Group is responsible for GIS planning and implementation across utilities / works, emergency management, environmental and planning disciplines in order to develop an Enterprise GIS Strategic Plan to achieve a garrison-wide GIS model and a multi-year GIS Implementation.

Planning, Design and Implementation of a Fairfax Water Enterprise Geographic Information System (EGIS)

Project manager for this large and complex effort to migrate Fairfax Water's existing AutoCAD-based mapping system to an ESRI-based Enterprise GIS. The scope of this project consists of an initial Phase 1 discovery of existing mapping systems, infrastructure, and applications that require migration to, or integration with, the future ArcGIS server based Enterprise GIS. The EGIS system is being designed taking into account the future needs of SAP, SCADA, document management and asset management enterprise systems integration. Phase 2 is the implementation phase has begun and includes ongoing system support and enhancements.

RANDALL TROTT, LS – TECHNICAL CONSULTANT



Education

BS, Surveying Engineering, University of Maine, 1992

MBA, Virginia Commonwealth University, 2004

Registration

Certified Land Surveyor, Virginia, 1998

Experience

19 Years

Affiliations

Technical Advisor to the Commonwealth of Virginia Information Technology Resource Guideline on Global Positioning Systems (GPS)

Past President, Virginia Association of Mapping & Land Information Systems

Virginia Association of Surveyors

Mr. Trott provides overall and technical management for Timmons Group GIS Projects, which include Tax Parcel Mapping, Utilities Mapping, GIS Applications Development, Enhanced 911 and other computerized mapping and surveying projects. Randy has worked on various projects that utilize geographic data for enhanced mapping and information systems. His professional experience and abilities include GIS applications development and programming, GIS network modeling and routing, global positioning system (GPS), integration, geodetic adjustments for coordinate system conversions and data conversion. His combination of GIS experience and land surveying experience gives Randy a unique understanding of GIS and GPS mapping requirements within the Geospatial Services Community.

SELECT PROJECT EXPERIENCE

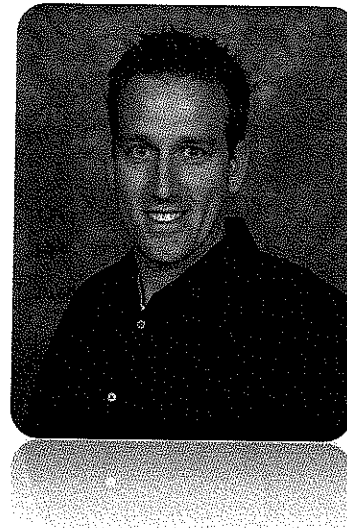
Montgomery County, VA – Principal in Charge

Responsible for contract administration and technical consulting, CADD to geodatabase conversion, NovaLIS Parcel Editor and ArcSDE implementation. Montgomery County contracted with Timmons Group to migrate its existing CADD based cadastral data to an ESRI Geodatabase/NovaLIS Parcel Editor Solution. Timmons Group was tasked to conduct an analysis and produce a report of current and planned cadastral related processes as well as provide documented project procedures detailing the strategies necessary to successfully migrate the existing data to the ESRI Land Records and Address Data Models.

Countywide GIS Parcel Mapping Implementation, Augusta County, VA – Principal in Charge

Responsibilities include technical and contractual oversight for Augusta County's efforts to establish a highly accurate digital parcel mapping system. The project will involve utilizing plats, deeds and other information to derive a highly accurate cadastral landbase representing the County's 37,000 tax parcels. Additional services include: GIS system design, conversion of existing parcel maps, deeds and subdivision maps mapping into a digital format, hardware/software consulting and ArcInfo GIS applications development along with ArcSDE implementation and migration

CHRISTOPHER GERECKE - TECHNICAL CONSULTANT



Education

BS, Biology, Wake Forest University, 1997

MS, Environmental Studies, Virginia Commonwealth University, 2004

Experience

12 Years

Affiliations/ Certifications

Microsoft Certified Application Developer
Developing Web Based Applications using ASP.NET
Developing Desktop Based Applications using Visual Studio.NET
Developing XML Based Solutions using Visual Studio.NET
ESRI Product Training and Certification
Microsoft Certified Professional (MCP) – Certified in Building Windows Applications with Visual Basic.NET

As Director of Enterprise Solutions, Chris Gerecke performs a multitude of tasks required for the successful design, development, implementation, and support of high quality geospatial and technology solutions. Chris' comprehensive knowledge of ESRI's software solutions, including ESRI's ArcObjects, ArcGIS Mobile, ArcGIS Server and Internet Mapping Solutions technology, enables Timmons Group to provide GIS application development and implementation for a growing list of clients. Chris was instrumental in the development of Virginia's Integrated Forest Resource Information System (IFRIS), which won a Special Achievement in GIS (SAG) award in 2006 and was selected by the Environmental Systems Research Institute, Inc (ESRI) to be featured as one of only two applications in the world presented during the plenary session of the 2007 User Conference in San Diego. He is currently working on architecting enterprise web, mobile, and desktop applications aimed at assisting states, private companies and the federal government with their enterprise geospatial needs. Timmons Group's Enterprise Solutions group prides itself on integrating complex business workflows with geospatial viewing and analysis to generate significant Return on Investment (ROI) for their clients.

SELECT PROJECT EXPERIENCE

Architect and Project Manager, Missouri Department of Conservation – TALON Activity Mapping Solution

TALON (Time Accounting Location On-line Notebook) is an enterprise ArcGIS Server application designed to allow users to spatially track their activities and accomplishments and track time spent, measures, effort, grants / projects, and cost share. It is designed to support hundreds of users and allows users to digitize directly via a web browser and commit shapes into the enterprise SDE database. It is built using ArcGIS Server based technology and Timmons Group's custom REST based feature creation API that uses server object extensions and geoprocessing tasks to enforce spatial validation rules. This project utilizes agile (scrum) development and project management to deliver frequent, solid, well-tested, customer approved deliverables.

Architect, Wisconsin Department of Natural Resources – WisFIRS Solution

WisFIRS (Wisconsin Forest Inventory & Reporting System) is an enterprise ArcGIS Server application designed to allow DNR staff to spatially map (thru heads-up digitizing via a web interface) properties, stands, established and completed treatments. Gerecke participated in the needs assessment, GAP analysis, design, and development of the enterprise-wide system. The solution allows users to easily navigate the state and digitize stands and completed treatments, while also creating maps for timber sales.

Architect and Project Manager, State of South Dakota – WILMA Solution

WILMA (Wildlife Information Lands Management Application) is a centralized, web-based enterprise information system integrates GIS functionality with land management activities allowing for temporal tracking of land resources, management activities, land inventory, easements, planning, goals, and objectives reporting. The application allows managers, conservation officers, and other constituents to edit enterprise geodatabases online. The Enterprise Land Management Internet application enables the agency to spatially manage all Game Production Areas (GPAs) and their corresponding 5-year plans. In addition, the powers of geospatial analysis enable users to easily and readily extract information out of the application through custom reporting, mapping, and querying.

Section III – Service Category

Attachment 5: ELECTRONIC COMMERCE

Introduction

Timmons Group provides Electronic Commerce services for state and local governments throughout the United States. Our services are offered through fixed fee and time and materials project based engagements. We have extensive experience in providing the services requested under Electronic Commerce through our Technology Services Sector.

Our experience includes:

- Developing websites that integrate GIS and legacy systems,
- Web-enabling legacy systems for natural resource management, historic preservation, transportation, and utilities.
- Integrating enterprise level databases (Microsoft SQL, ORACLE, DB2)
- Developing web front ends user applications and integrating with back end systems
- Application Development experience using Visual Studio .NET, ASP .NET, C# .NET, J# .NET, VB .NET, AJAX .NET, Java J2SE, javascript, SQL, HTML, XML, SQL Server, HTML, CSS, AJAX, Adobe Flash, Flex/Action Script, Microsoft Blend, Microsoft Silverlight, Java, Visual Basic, C++
- Web server specification and implementation experience

GIS Services Client References

Perhaps the best measure of our capabilities is our extensive list of repeat clients. We believe that this indicates client satisfaction relative to our performance. Our experience on similar contracts has allowed our project team members to develop good working relationships as partners with our clients. Shown below are the client references for the Electronic Commerce Category.

Susan Deseubio
Hanover County Dept. of Economic Development
Deputy Director
9097 Atlee Station Road, Suite 304
Mechanicsville, Virginia 23116
(804) 365-6462
skdeusebio@co.hanover.va.us

David Kleppinger
Executive Director
AHEDC
1000 Dabney Drive, Ste. 510
Clifton Forge, VA 24422
504.862.0936
dkleppinger@allhighlands.org

Joe Street
Virginia Department of Forestry
900 Natural Resources Drive
Suite 800
Charlottesville, VA 22903
434.220.9094
joe.street@dof.virginia.gov

Bobby Wingfield
E-911 Coordinator
Appomattox County
434.352.3967
bobby.wingfield@appomattoxcountyva.gov

Similar Project Experience

The following pages include examples of projects where Timmons Group provided the services requested as part of Electronic Commerce.

SITE LOGISTICS WEB PORTAL FOR ECONOMIC DEVELOPMENT

HANOVER COUNTY, VIRGINIA

Client

Hanover County, Virginia,
Department of Economic
Development

Contact

Susan Deseubio
Hanover County Dept. of
Economic Development
Deputy Director
9097 Atlee Station Road,
Suite 304
Mechanicsville, Virginia
23116
(804) 365-6462
skdeusebio@co.hanover.va.us

Duration of Project

3 Months

Project Value

\$74,000

PROJECT SUMMARY

Timmons Group contracted with the Hanover County, VA Department of Economic Development to develop a comprehensive Internet application designed to enhance the ability to attract and promote business within the County. Timmons Group, leveraging a combination of ESRI-based Server/Internet Geographic Information Systems (GIS) technology, has developed a highly advanced Economic Development and prospect recruitment tool, known as Site Logistics. Timmons Group's software combines a companion desktop maintenance application to enable the maintenance of sites and buildings information necessary to feed the Site Logistics site, as well as the needs related to providing the Virginia Economic Development Partnership (VEDP) with current building and site information in the required State database format.

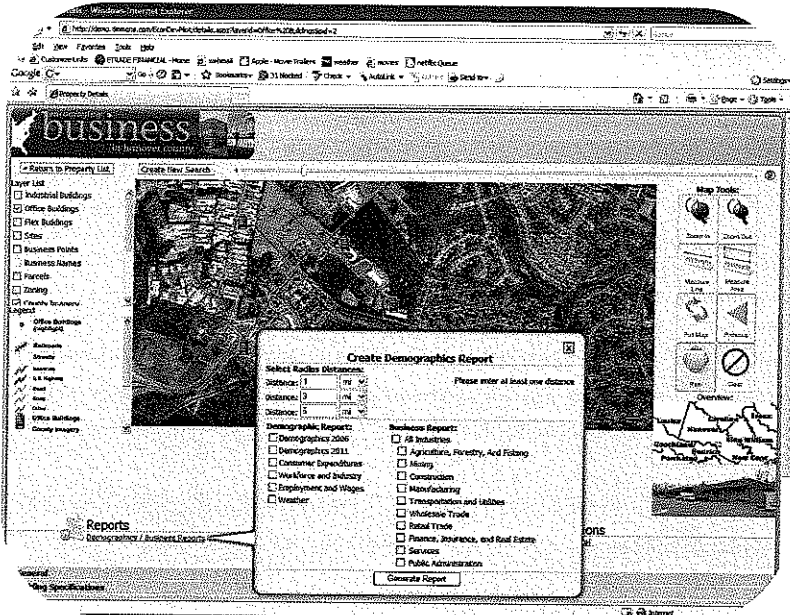
One of the principal features of Site Logistics is the ability for Hanover County to purchase a hosted (ASP) solution. The software leverages the most advanced applications development methods available hosted on a robust multi-tier environment consisting of ArcIMS, SDE (ArcGIS Server) configured to use the County's Enterprise Geodatabase data. The ASP service includes Monthly GIS database updates and Annual demographic database updates as they become available.

Internet-based Sites and Buildings Search Capabilities Include:

- Property Search
- Text/Attribute based search
- Map Search
- Reporting/Output
- Property (Site / Building) Reporting
- Surrounding Businesses Reporting
- Demographics Reporting
- Report export to a variety of supported standard formats, including PDF, Word, Excel and XML.

Data Management Functionality

- Site Logistics' Desktop property management tools enable the efficient change or inclusion local suite and building data. The functionality found in the Property Management component includes:
- Add new Property
- Edit existing Property
- Search for Property
- Attach Document to Properties
- Export Property Data



COMPREHENSIVE ECONOMIC DEVELOPMENT WEBSITE

ALLEGHANY HIGHLANDS ECONOMIC DEVELOPMENT CORPORATION

Client

Alleghany Highlands
Economic Development
Corporation

Contact

David Kleppinger
Executive Director
AHEDC
1000 Dabney Drive, Ste. 510
Clifton Forge, VA 24422
504.862.0936

Duration of Project

In-progress

Project Value

\$61,000

Duties

Site Design, Development
and Implementation

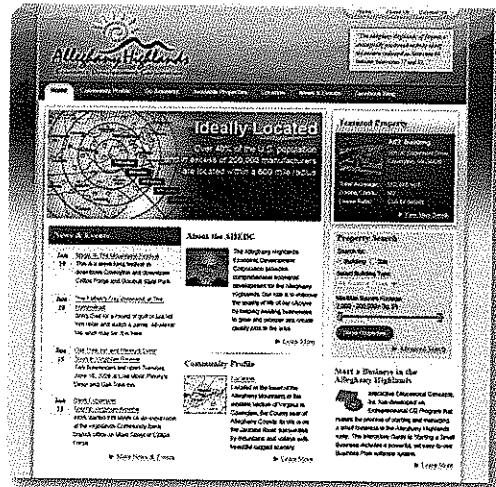
PROJECT SUMMARY

Timmons Group contracted with the Alleghany Highlands Economic Development Corporation (AHEDC) to develop a comprehensive economic development and business assistance website that will serve as a marketing and business development tool for new and existing business and industry. The site has a content management system to enable AHEDC to easily keep the site updated and fresh. Social media will also be incorporated in the site to ensure AHEDC reaches out to different markets.

Site LoGistics, Timmons Group's site and building database for economic development organizations will be integrated in the website to allow users to conduct comprehensive searches for available properties. Site LoGistics assists businesses, real estate professionals and site location specialists seeking critical data to identify profitable locations. By integrating detailed site and building information with key demographic, economic, and consumer data, Site LoGistics augments the site selection process. Information on specific commercial sites and buildings can be retrieved quickly without accessing numerous sources. With Site LoGistics, these professionals and business leaders have access to important data from one convenient, web-based source.

Site LoGistics leverages Geographic Information Systems (GIS) and incorporates local GIS data

using ESRI ArcGIS Server technology. One of the principal features of Site LoGistics is the ability for AHEDC to purchase a hosted (ASP) solution. To enhance the reporting capabilities, the Site LoGistics' solution will leverage ESRI's Business Analyst Online API for Flex to create trade areas (rings, drive time & donuts) around a specific location and for the creation of demographic reports based on a trade area, an arbitrary area specified by a polygon, or a standard geographical area such as a county or a ZIP Code.



GIS WEBSITE DEVELOPMENT

APPOMATTOX COUNTY, VIRGINIA

Client
Appomattox County

Contact
Bobby Wingfield
E-911 Coordinator
Appomattox County
434.352.3967
bobby.wingfield@appomattox
countyva.gov

Completion Date
2009

Project Cost
\$25,000

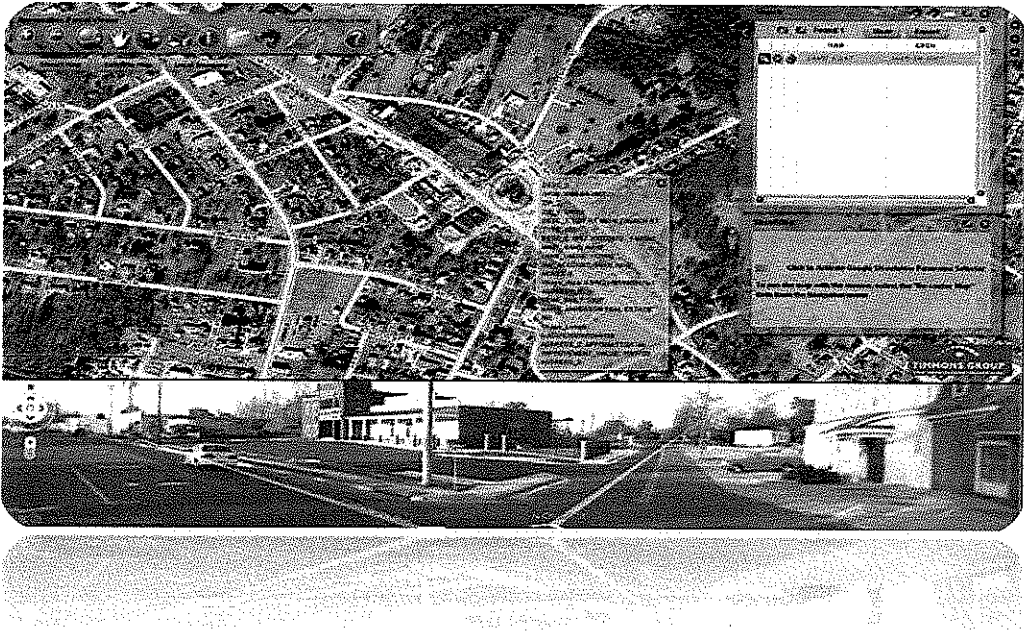
PROJECT SUMMARY

Timmons Group was selected by Appomattox County, VA to provide Web LoGIStics, a web-based solution for the display and spatial analysis of parcels, assessment and local government data. Web LoGIStics delivers high quality digital mapping in a Rich interface. Web LoGIStics links to the county assessor's information, land records, and planning information to provide a robust query and mapping capability. In addition to viewing and analyzing information online, users can perform queries, access reports, and print information and export records to Microsoft Office Excel

Web LoGIStics is built using the latest in ESRI® technology in a FLEX application programming interface environment and focuses on usability and streamlining the user's experience.

SERVICES PROVIDED

- GIS website development
- GIS website hosting
- Website data maintenance and update



STATE OF VIRGINIA IFRIS HARVEST NOTIFICATION

STATEWIDE, VIRGINIA

Client

Virginia Department of Forestry (VDOF)

Contact

Joe Street
Virginia Department of Forestry
900 Natural Resources Drive
Suite 800
Charlottesville, VA 22903
434.220.9094
joe.street@dof.virginia.gov

Duration of Project

December 2008 – June 2009

Project Value

Automated a manual process with an e-commerce site to serve commercial loggers

Duties

- Requirements
- Needs assessment
- Web Development
- Database Design
- Testing
- Project Management
- Delivery

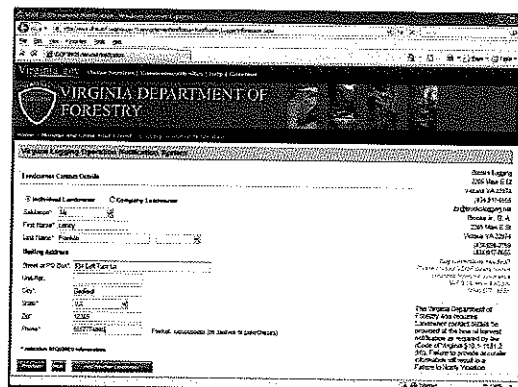
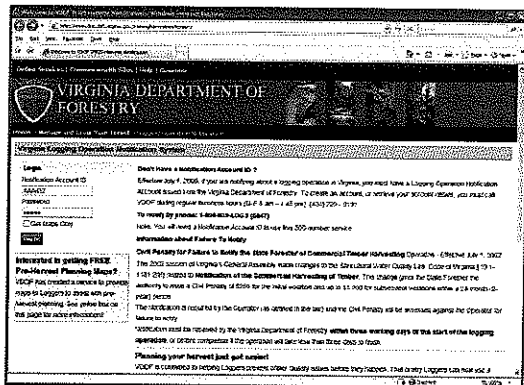
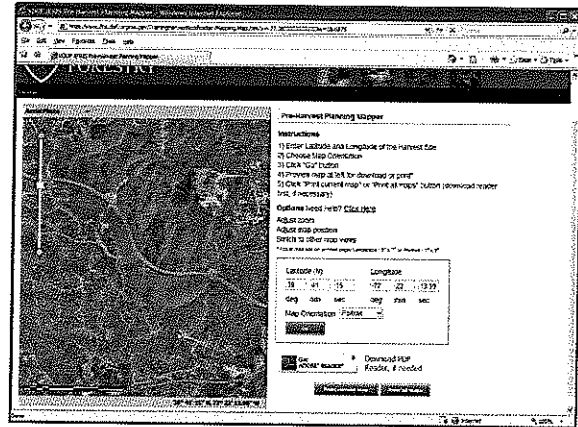
PROJECT SUMMARY

Commercial Timber Harvest Operators (Loggers) operating in the Virginia Commonwealth are required by law to notify the Virginia Department of Forestry (VDOF) of all of their harvesting operations. If Loggers fail to notify, they are penalized in accordance with the number of violations accrued over time.

To enforce this law, VDOF needs an effective mechanism for receiving and managing the data that the Loggers send in. In the past, VDOF relied on a simplistic web form for capturing data, which resulted in delayed data transfer to the field, poor data quality, and difficulty in monitoring Logger infractions over a period of time.

In response to this challenge, Timmons Group developed the Virginia Logging Operation Notification System, which streamlined VDOF's collection and tracking of notifications and ties into the agency's IFRIS enterprise web/mobile application. Part of the implementation included assignment of unique notification accounts for Loggers to use for submitting notifications, thus allowing VDOF to track the Logger's compliance over time. The integration of the notification system with the IFRIS enterprise also means that VDOF field employees always have an at-a-glance view of all harvests awaiting inspection in their area, they can access harvest location and get onsite quickly, and can view notification details on their mobile data collection devices. (They can also enter a notification on the mobile device, should a Logger wish to provide one to the forester in the field.)

In addition to the workflow and data management improvements, VDOF wanted to help Loggers plan harvesting operations before water impairment issues have a chance to develop. Therefore, the system also includes a tool for Loggers to provide Lat/Long coordinates and then access Harvest Planning Maps. This easy-to-use system is accessed using their notification account, and results in aerial photo, topographic and culvert sizing recommendation maps that assist in proper planning of harvest BMP use.



Attachment 8: TECHNOLOGY ADVISORY SERVICES

Introduction

Timmons Group provides Technology Advisory services for state and local governments throughout the United States. Our services are offered through fixed fee and time and materials project based engagements. We have extensive experience in providing the services requested under Technology Advisory through our Technology Services Sector.

Delivery Method

We provide our technology advisory services through the following delivery methods:

- Strategy development
- Requirements gathering
- GAP analysis preparation
- SWOT analysis preparation (strengths, weaknesses, opportunities, threats)
- Best practices analysis and comparison
- Data collection through meetings (town hall and individual), surveys, and interviews
- Systems architecture design and specification
- Business process engineering
- Applications design, development, and implementation
- Performance measurement metrics development and assessing
- Recommendation development
- Final development and presentation (documents, presentations, etc.)

GIS Services Client References

Perhaps the best measure of our capabilities is our extensive list of repeat clients. We believe that this indicates client satisfaction relative to our performance. Our experience on similar contracts has allowed our project team members to develop good working relationships as partners with our clients. Shown below are the client references for the Technology Advisory Services Category.

Steve Marzolf, Integrated Services Program Director
Virginia Information Technologies Agency
Commonwealth Enterprise Solutions Center
11751 Meadowville Lane
Chesterfield, VA 23836
804.416.6019 (voice)
866.4VA.E911 (toll free)
steve.marzolf@vita.virginia.gov

Ian Stack
Fairfax Water
Chief, GIS
8560 Arlington Blvd.
Fairfax, VA 22031
703.289.6315
istack@fairfaxwater.org

Murali Rao, Director, Information Technology
Applications Division
Virginia Department of Transportation
804.786.9702
murali.rao@vdot.virginia.gov

Jim Junkins
HRECC Director
101 North Main Street, 5th Floor
Harrisonburg, VA 22802
office - 540.434.2006
ijunkins@hrecc.org

Similar Project Experience

The following pages include examples of projects where Timmons Group provided Technology provided Technology Advisory services

VITA ENTERPRISE GIS STRATEGIC BUSINESS PLANNING

STATEWIDE, VIRGINIA

Client

Virginia Information
Technologies Agency

Contact

Steve Marzolf
Virginia Information
Technologies Agency
ISP

11751 Meadowville Lane
Chester, VA 23836
804) 416-6019

steve.marzolf@vita.virginia.gov

Project Duration

4 Months

Duties

Strategy development,
Planning, Systems
architecture, Governance
modeling, Resource
utilization assessment, ROI
metrics development,
Presentation

PROJECT SUMMARY

The Virginia Information Technologies Agency (VITA) and the Chief Information Officer of the Commonwealth contracted with Timmons Group for the development of a Strategic Business Plan for the provision and operation of enterprise GIS services for the Commonwealth of Virginia.

Project Objectives

Timmons Group project objectives were; Evaluate the current information technology resources and uses in the Commonwealth, provide a comprehensive inventory of geospatial information systems resources in 20 Virginia State agencies, evaluate technical issues that could impact the delivery of services, make recommendations for improvement in operations, existing resource usage, IT infrastructure, and data maintenance, and identify metrics to measure service delivery performance.

The result of this project is a comprehensive analysis and plan to guide future geospatial information technology infrastructure use within the commonwealth.

The project tasks included

- Development of questionnaires
- Conducting meetings with key stakeholders and operational personnel
- Research, analysis, and reporting on “best practices” from other States
- Analysis and assessment of existing technology applications (uses), data resources, and IT infrastructure (hardware / software / networking).
 - Analysis and assessment of technical skill requirements and the existing staff resource ability to meet the requirements in a timely manner.
 - Development of recommendations for improvements in process, data, and infrastructure to reduce cost, improve services, and increase systems reliability and security

Deliverables

- Questionnaires
- Meetings with individual state agencies
- Community meetings
- Analysis reports and spreadsheets
- Power point presentations for community meetings
- Summary power point presentation of project results
- Detailed power point presentation of project results

TRANSPORTATION-FOCUSED ENTERPRISE GIS STRATEGIC PLANNING

STATEWIDE, VIRGINIA

Client

Virginia Department of Transportation (VDOT)

Contact

Murali Rao
Director
Virginia Department of Transportation
800 East Leigh Street
3rd Floor
Richmond, VA 23219
804.786.9702
Murali.rao@vdot.virginia.gov

Duration of Project

6 months

Duties

Strategy development,
Planning, Systems architecture,
Business process engineering,
Performance measurement
Recommendation
development, Presentation

PROJECT SUMMARY

The Virginia Department of Transportation (VDOT) contracted with Timmons Group to review their GIS strategic direction for the upcoming years and looks to integrate newer technologies such as Service Oriented Architecture (SOA) and web services. The end goal of this project is to strategically position VDOT to better their data and more rapidly turn data into information and solutions from which intelligent decisions can be made.

This project will define short and long-term operational and strategic actions and associated deliverables to meet the overriding vision of streamlined data availability and information delivery. To meet these objectives, Timmons Group will deploy technical, operational, and management consulting expertise to address the following functional areas at all levels of VDOT's GIS user community:

Data Requirements/Management; including Metadata Standards/Change Management, Data Collection/Development Standards, and Data Maintenance/Synchronization

Web/Map Service Requirements; including Map Services; Web Services, and Web Services Management/Enterprise Services Bus (ESB) Technologies

Application Discovery/Requirements (Custom/COTS) review and recommendations; including In-house (desktop, Internet), Mobile, Existing COTS, and New Applications Identification and Functional Requirements Scoping

Governance/Organizational Structure Review; including Committee and workgroup structure, Services; Data, Applications, Business Process Definition/Chain-of-custody, Change Management, and Public Relations/Outreach/Training/Support

Best Practices Due-diligence; including peer review and identification of best practice agencies within the DOT community.

Consulting Skills Required

- Strategic Planning/Needs Assessment
- Business Process Refinement
- Application Architecture Experience
- Service Oriented Architecture (SOA) knowledge
- GIS/Geospatial Applications Expertise



FAIRFAX WATER ENTERPRISE GIS SYSTEM

FAIRFAX, VIRGINIA

Client

Fairfax Water

Contact

Ian Stack
Fairfax Water
8560 Arlington Boulevard
Fairfax, VA 22031
703.289.6315

Duration of Project

Initial project 6 months
Phase II in-progress

Project Value

2 million

Duties

Strategy development,
Planning, Systems
architecture, Business
process engineering,
Performance measurement
Recommendation
development, Presentation

PROJECT SUMMARY

Fairfax Water (FW) contracted with Timmons Group to migrate its existing AutoCAD-based mapping system to an ESRI-based Enterprise GIS. The scope of this project consists of an initial Phase I discovery of existing mapping systems, infrastructure, and applications that require migration to, or integration with, the future ArcGIS server based Enterprise GIS. The EGIS system is being designed taking into account the future needs of SAP, SCADA and asset management enterprise systems integration. Phase 2 is the implementation phase and will include ongoing system support and enhancements. The high-level Phase I project tasks are outlined below.

PROGRAM MANAGEMENT

WORKSHOPS AND SITUATIONAL ANALYSIS DOCUMENTATION

- Informational Workshops for FW Employees
- User Interviews
- Situational Analysis Documentation
- WUDM Data Model Development and Geodatabase Prototype

INFORMATION PRODUCT DESCRIPTIONS

- Data Management Products
- Systems Integration Solutions (Web Services, etc.)
- ArcGIS Server Web Applications
- ArcGIS Server Mobile Applications
- Data Interoperability Solutions
- IPD Priority and Cost/Benefit Documentation

SYSTEM DESIGN/FUNCTIONAL SPECIFICATION DOCUMENTS

- Requirements document based on established list of IPDs
- Develop Logical Design document based on requirements document
- SAP Integration Options Document
- Mobile Computing Recommendations Document
- Staffing and Training Recommendations Document (GIS Management Plan)
- Long Term Data Collection Strategy
- High Level Implementation Plan Document

It is our understanding that Loudoun Water is interested in support related to the development and integration of data into its GIS, including surveys of existing and new facilities. Therefore, the data modeling and conversion tasks being performed for FW are described in more detail below.

WUDM Data Model Development and Geodatabase Prototype – design and prototype a Geodatabase Model based upon the design criteria required to support FW's proposed EGIS. This data model, based upon ESRI's Water Utility Data Model (WUDM), provides for a complete data mapping of existing AutoCAD environments, along with future model requirements necessary for future data feature augmentation and systems integration requirements.

Pilot Prototype and Data Mapping Matrix (ETL) - define a pilot conversion area and subsequent conversion batch areas. The resulting data was provided in digital format for FW review and approval. In addition, a cartographic map product of the pilot area will be created and provided to clearly define the expected cartographic map product development capability. The pilot area results will be used to define and refine the GIS data products.

HRECC AUTOMATED DATA REPLICATION

STATEWIDE, HARRISONBURG/ROCKINGHAM EMERGENCY COMMUNICATION CENTER

Client
HRECC

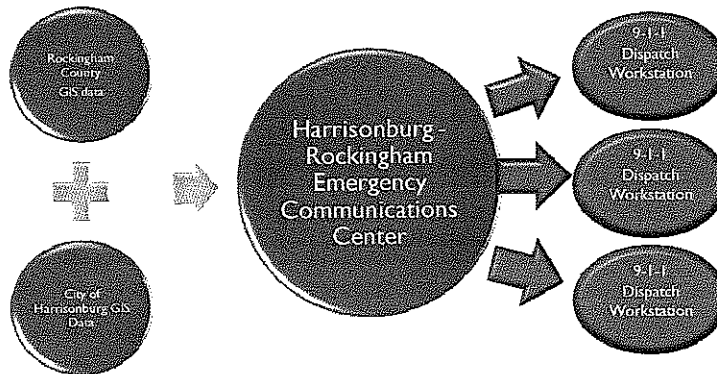
Contact
Jim Junkins
HRECC Director
101 North Main Street,
5th Floor
Harrisonburg, VA
22802
office - 540.434.2006
jjjunkins@hrecc.org

Completion Date
Phase I – June 2008
Phase II – January 2010

Duties
Planning, Systems
architecture, Business
process engineering,
Application
development and
implementation

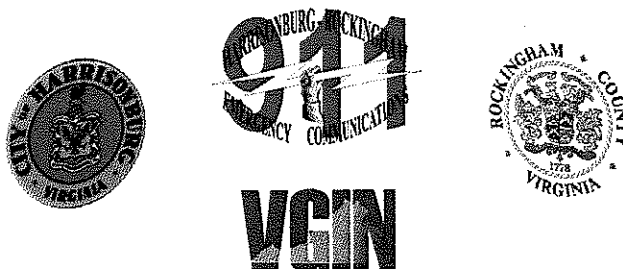
PROJECT SUMMARY

Timmons Group was hired by the Harrisonburg / Rockingham Emergency Communication Center (HRECC) to design and implement a solution that supports near-real time Geospatial updates of critical infrastructure and address layers by both consolidating disparate data sets and facilitating the consumption of these layers into E-911 mapping system and the state GIS program. The solution integrates ESRI's ArcServer, ArcSDE, and the HRECC mapping software using ArcServer replication and automated extract, transform, and load (ETL) tools to seamlessly extract the updates from multiple sources, integrate data GIS data, and update the mapping system.



Timmons Group tasks include:

- Assessment of the current systems, work processes, and user requirements
- Development of recommendations into a functional requirements document.
- Development of automated geoprocessing tasks to QC data
- Implementation of the infrastructure, software, applications, workflows to implement automated data sharing with the localities and State.



STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: Timmons GroupAuthorized Signature:  Date: January 6, 2010

EXHIBIT 10

REQUISITION NO.: ITECH10

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED
ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY
PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 X

NO. 2 X

NO. 3

NO. 4

NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR
MUST CLEARLY UNDERSTAND THAT ANY VERBAL
REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY
ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES
AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE
INFORMATION ISSUED IN WRITING AND ADDED TO THE
SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.



.....
SIGNATURE

Timmons Group
COMPANY

1/6/10
DATE