



Geographic Information Services, Inc.

Let's Get Down to Earth

US Army

SRP Requirements for Army Mapper Development

CHALLENGE:

Decrease repetitive mapping requests to GIS Analysts supporting the Army's Sustainable Range Program (SRP) by empowering soldiers and other end-users with accessible and intuitive analysis tools, while leveraging ongoing Army mapping and enterprise systems efforts.

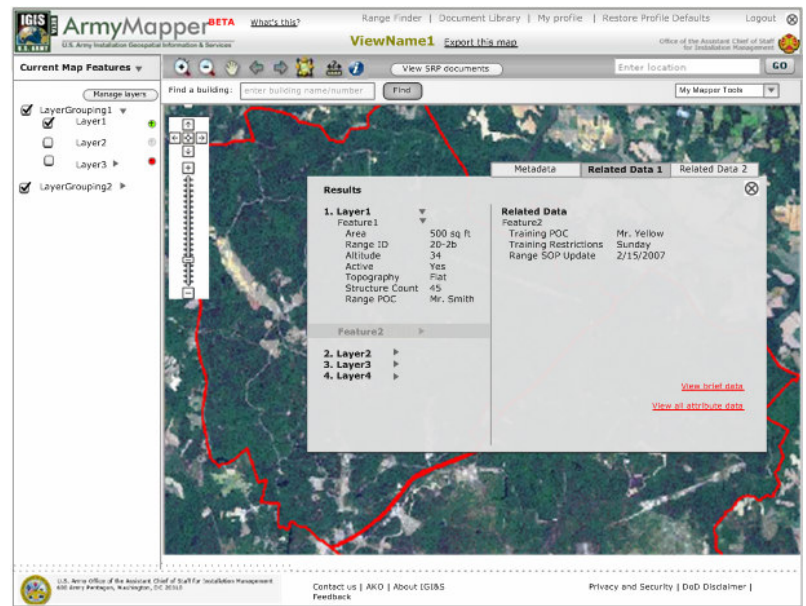
BACKGROUND:

The SRP Geographic Information Systems (GIS) Program is the foundational support element for SRP and provides geospatial data and application support for its two core programs: Range Training and Land Program (RTLTP) and Integrated Training Area Management (ITAM). The SRP GIS mission is to create, manage, analyze, and distribute authoritative standardized spatial information, products, and services for the execution of training strategies and missions on U.S. Army ranges and training lands. To meet their mission, the SRP community needs easy access to Army-wide geospatial and non-geospatial data that is collected and maintained by SRP and installation staffs.

The Office of the Assistant Chief of Staff for Installation Management (OACSIM) is responsible for implementing the Army Installation Geospatial Information and Services (IGI&S) program for the Army Installations and Environment (I&E) domain. IGI&S systems across the Army I&E domain have developed from grass roots efforts at multiple Army levels including the office, installation, region, component and command. The Army OACSIM IGI&S Program Management Office (PMO) is responsible for analyzing IGI&S requirements, geospatial systems, defining standards, policy and regulations, and developing a centralized repository and mapping capability for the I&E domain. The IGI&S PMO is building the Army's geospatial system (Army Mapper (AM)) for the I&E domain; it provides the central data repository and enterprise application framework necessary to facilitate these SRP requirements.

SOLUTION:

The SRP GIS Program has entered into an agreement to develop and build SRP tools and meet SRP functional requirements within the Army Mapper - providing users the ability to easily, quickly, and seamlessly query, display and export needed information.



The first phase in the deployment of the SRP tools is to develop core functionality within the AM web mapping framework, providing stakeholders with an easy to use interface that supports their business process. To that end, GISi is working with AM development staff to finalize a web mapping architecture, integrate SRP development priorities into the AM framework, and migrate existing SRP tools to AM.

GISi worked with the Army Environmental Command (AEC), as the execution agent for this project, and the SRP community, as the key stakeholder, to refine user requirements, design a user interface, and determine a path for developing core priorities. Development tasks for this phase are focused on core tools including user-defined profiles for default tool and data availability, a custom identify function and a Range Query capability. Migration of the Range Managers Toolkit (RMTK) web components is among the priorities slated for development during a future phase.

The AM web framework utilizes ESRI ArcGIS Server 9.2 technology. GISi completed a technical analysis as part of this project evaluating AM architecture options to integrate SRP requirements. The result was consensus between the AM and SRP communities to deploy a services oriented architecture with both Java and .NET user interfaces. This enables the Army to leverage the investments from Army Mapper and SRP programmatic efforts and build an architecture that is more extensible and flexible, enabling future expansion and integration.

RESULT:

Storyboarding for the prioritized development tasks has been well received by end-users and key stakeholders. Final design and initial development activities are underway; Phase I of the project is scheduled for completion in the fourth quarter of FY08.



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