

Managing Geospatial Data for Homeland Security

Geospatial information is critical to emergency planning, deployment and response. From mapping of water supplies and evacuation routes to damage assessment for disaster relief, accurate, rapidly distributed location-based data is crucial to protect people, property assets, and infrastructure in the event of crises. Yet coordinating the sharing of spatial data, acquiring and integrating new information, and using this data for real-time analysis can present an enormous challenge, pushing the limits of current technology.

INTEGRATED SOLUTIONS

To assist government agencies in applying geospatial data to the security effort, Sewall offers integrated solutions in geospatial information management that support preparedness at every stage-- risk assessment and emergency planning, situation analysis and resource deployment, and damage assessment and recovery.

Prepare

Sewall brings broad capabilities in aerial imaging, mapping, asset inventory, web-based GIS and geoportal development to acquire, integrate and distribute accurate geospatial data to users across the enterprise and in the field. Through the Sewall GeoPower™ Portal, our clients can access, evaluate and manage a wide range of data sets from multiple sources, using third party applications to:

- Assess risks to communities & critical assets
- Identify high-density & vulnerable populations
- Locate hospitals, schools & emergency resources
- Develop emergency dispatch & evacuation routes
- Locate potential terrorist targets
- Develop measures to protect people & infrastructure

Respond

During a disaster, users can access data and applications to:

- Analyze size & extent of the situation & disaster site
- Model developing impact, such as hazardous plumes
- Determine site avoidance & emergency vehicle dispatch
- Compact & transfer data rapidly to emergency responders
- Analyze staging capabilities
- Identify deficiencies in medical assistance, water & other supplies

Assess and Recover

Following a disaster, Sewall consultants work with clients to:

- Acquire & interpret imaging for search & rescue
- Interpret geospatial data to assess damage & detect change
- Recover lost data from redundant storage capabilities



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Offices nationwide

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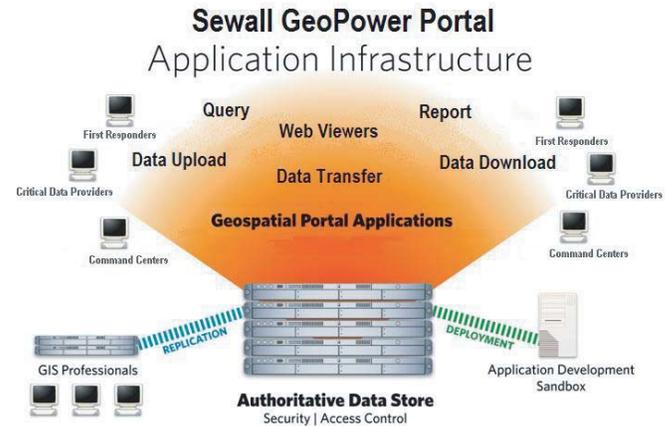
WHY SEWALL

Expertise in critical infrastructure data

- Acquisition/inventory
- Integration
- Evaluation/analysis
- Maintenance
- Distribution

Expertise in geportal technology

- COTS enterprise-wide web-based system
- Customized interfaces
- Replication technology for data recovery
- Tier 1 data center
- Automatic data integration & reprojection
- User authorizations & on-line data maintenance
- Rapid distribution across departments & to field operatives



Geospatial, engineering and land information consulting experience on CIP projects

- Software/hardware testing & systems integration for portable Marine Corps intelligence system
- Border mapping for International Boundary Commission
- Facility mapping, geodatabase creation & canal assessment software for ACE Cape Cod Canal
- Facility mapping of Naval bases
- Aerial flood, hurricane, oil spill, & burn damage mapping
- Aerial mapping & interpretation of ice storm damage
- Site & fatal flaw analyses & geportal development for wind energy companies
- Risk assessment software for pipeline integrity management
- Municipal asset inventory, mapping & management; geodatabase & geportal creation

Broad capabilities & collaborative corporate structure

- Bundled services across operating units to meet specific client needs
- 170 staff at 11 locations; 4 airplanes at 2 airports
- Personalized service & fast, flexible response

Corporate partnership with ESRI

- Customized applications
- Added value to ESRI products

For more information on Sewall's integrated solutions for critical infrastructure protection, contact: Patrick Graham, Director of Project Development, at 800 648 4202; E:mail: pgraham@sewall.com



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