

# Managing Geospatial Data for Emergency Planning & Response

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 a crisis. 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, emergency planning, situation analysis, resource deployment, damage assessment and recovery. Replication technology ensures data availability in the event of command center loss or communication breakdown.

### 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 a Sewall 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 an incident, users can access data and applications to:

- Improve situational awareness
- Model developing impact, such as hazardous plumes
- Determine site avoidance & emergency vehicle dispatch
- Provide critical information to emergency responders
- Analyze staging capabilities
- Identify deficiencies in medical assistance, water & supplies

### Assess and Recover

Following a disaster, Sewall consultants work with clients to:

- Acquire & interpret aerial imaging for search & rescue
- Perform laser-based ground-level damage assessment
- Interpret geospatial data to assess damage & detect change
- Recover lost data from redundant storage capabilities



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## WHY SEWALL?

### Expertise in critical infrastructure data

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

### Expertise in geoportals technology

- Enterprise-wide information sharing system
- Customized interfaces for critical workflows
- Replication technology for data recovery
- Tier 1 data center
- Automatic data integration & reprojection
- User authorizations & on-line data maintenance
- Rapid distribution & interoperability across departments & 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 USACE Cape Cod Canal
- Facility mapping of US Navy bases
- Aerial flood, hurricane, oil spill, & burn damage mapping
- Aerial mapping & interpretation of ice storm damage
- Site & fatal flaw analyses & geoportals development for wind energy companies
- Risk assessment software for pipeline integrity management
- Utility infrastructure inventory, mapping & management; geodatabase & geoportals creation

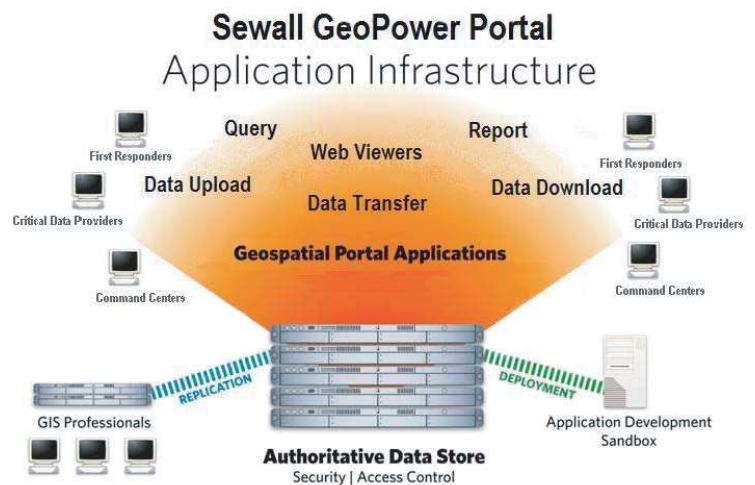
### Broad capabilities & collaborative corporate structure

- Bundled services across operating units to meet specific client needs
- Development & commercialization of new technologies
- 70 staff at 6 locations
- Personalized service & fast, flexible response

### Corporate partnership with ESRI

- Customized applications
- Integration with ArcGIS Situational Awareness Bundle
- Added value to ESRI products

For more information on Sewall's integrated solutions for critical infrastructure protection, contact:  
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