Current and Past Projects

- Department of Military and Veteran's Affairs – GIS support for SDSFIE / ISR submittal, web development, and archaeological report conversions / data extract into GIS.

- Tutka Government Services - Provide GIS mapping services for a variety of TGS clients. Focus is on soil and wetlands mapping, data conversion, data organization. (ongoing since 2006)

- US Army Corps of Engineers – Create and serve floodplain data and documents and complimentary agency url links via a custom ArcGIS Server application built on FLEX. Provide both public and private web sites – private site (USACE employees only) has a secured login. Hosting the USACE's data on a secured server. Successful pilot project. (ongoing since 2011)

- BLM – Responsible for providing comprehensive onsite GIS support at the BLM California State Office, Support Services - GCDB & Mapping Sciences. Evaluate, migrate and update the statewide datasets to meet national database model standards. Development of tools (application programming), applications and automated processes, programs and workflows to improve output visual quality, insure data standardization and to increase efficiency of service. Write programs that translate existing programs and scripts that automate the management, maintenance and standardization of large datasets including the Public Land Survey, NLCS and others into approved data models for internal use as well as publication ready data designs. (ongoing since 2010) Two additional contracts to provide NEPA and RMP support.

- USFWS – Water Resources Branch, Portland, OR. Provide onsite GIS support. Main tasks involved: research and compile existing information from FWS and common water resources and GIS sources (USGS NHIS, HCDN and NHD, State Water Resources Agencies) for all Refuges assigned. Provide data gap analysis report. Data to be categorized according to RLGIS*.pdf and entered into WRIA database schema and RLGIS water resource features. Used ArcGIS 9 and 10x, XLS and Access programming to perform duties assigned.

- ARCTOS – Provide GIS mapping, spill response, ICS and hydrologic modeling for spill response for Alaska clients. Data mining, data gap analysis, geodatabase creation, potential spill response scenarios, sensitive flora / fauna mapping, mapping and reporting on where and when potential spill would hit land under a variety of weather and current conditions. Compared 3 spill hydrologic modeling programs against each other in order to provide final spill mapping scenario. (ongoing since 2008)

- Brooks Range Petroleum Corp – Provide GIS mapping and ICS services. Create and maintain GIS data for leases and units, flora, fauna, infrastructure, imagery. Provide ICS (spill drill) support as needed (mapping and status board). (ongoing since 2006)

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- BGES and Page & Turnbull – GIS mapping and Access programming for Anchorage, AK, historical housing inventory and historical preservation plan for local neighborhoods. Create maps of housing >= 1960. Create Access input form for historical housing field data and photo input and programmed output report forms. Create public presentation maps for the historical preservation plan. Build web-based (php) application for public comment for historical neighborhood preservation planning.

- TriState Generation and Transmission Assoc. 2011 - GIS Needs Assessment report for one of the largest energy transmission companies in the US. Interview staff within the engineering and transmission departments. Recommend GIS strategy to pull all of the departments and staff into working with one GIS technology and database.

- South Adams County Water and Wastewater District – Implement VUEWorks facility and asset management software package for the District. Provide custom in-house training on software usage.

- State of Alaska Dept. of Transportation – FAA partially funded project. Developed an SDSFIE environmental and cultural SDSFIE geodatabase 9x. Data conversion from CADD, XLS, DBF and *.txt format into GIS. Created pilot ArcGIS EALP – demo'd product with client to FAA – successful pilot project. Provide data mining and data gap analysis. Phase II project include aerial photography / photogrammetry and land and hydrographic surveying of over 1,344 sq. miles. Create ADOT's pilot ArcGIS Server application – both secure and public and pilot Electronic Airport Layout Plan. Oversight of two subcontracting firms.

- Alaska Army National Guard - Assisted in developing, collecting, attributing and implementation of their statewide SDSFIE Geodatabase – E-GIS 9x. Researched property data – inserted data using COGO.

- Michael Baker Jr. Converted aerial photo / survey CADD data into SDSFIE Geodatabase 9x for engineering database (airports) as well as cultural, administrative, hydrologic and geologic.

- NOAA - Provide Electronic Navigation Chart data conversion / extraction / creation of national database. 5 year IDIQ. Oversight of two subcontracting firms.

- Satori Group - Provided well monitoring locations mapping – ArcGIS 9x. Data conversion from XLS into ArcGIS geodatabase.

- Alaska Native Tribal Health Consortium – Custom ArcGIS 9x training and GIS database configuration.

- Alaska Village Initiatives – Custom GIS 9x mapping and training, database development and data mining.

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- AECOM (ENSR) – GIS mapping for a Brooks Range Petroleum Corp. Also GIS mapping for USFWS / Doyon Ltd., and exchange. Produced over 60 maps and provided multiple analysis / calculations.

- Glenn Gray & Assocs. – GIS mapping (cultural, administrative, transportation, environmental) for the Northwest Arctic Borough and the Bristol Bay Coastal Management Plan. Created 9 large-format maps.

- Bratslavsky Consulting Engineers - Provided GIS 8x and 9x custom in-house training. GIS support as needed.

- State of Alaska – Dept. of Transportation – Civil Rights Office. Provided GIS 8x custom in-house training.

- R&M Engineering - Developed an Alaska Dept. of Transportation SDSFIE airport database 9x pilot project.   Project to include document management for historical records, documents and plats, ALP data conversion, CADD to GIS data conversion.

- PND Engineering - Developed an Alaska Dept. of Transportation SDSFIE environmental and cultural SDSFIE geodatabase 9x. Data conversion from CADD, XLS, DBF and *.txt format into GIS. Successful pilot project.

- NASA - Converted aerial photo / survey CADD data into SDSFIE Geodatabase 9x. Provided on-site surveying, GPS field data collection and aerial photography collection. Oversight of two subcontracting firms.

- USFWS - Provided vegetation classification from satellite imagery for Kavalga Island, AK.

- Glenn Gray & Assoc - Provided updated environmental, cultural, administrative, geologic, subsistence and coastal habitat maps for the Bristol Bay Coast Resource Service Area.

- Bureau of Reclamation - Aerial photography / orthoimagery, surveying and feature data collection. Oversight of one subcontracting firm.

- Alaska Joint Pipeline Office - Provided legacy data conversion from WANG into proprietary document imaging format. Oversight of one subcontracting firm.

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