

## PROJECT CHARTER

**Project Title:** Nebraska Geospatial Data Sharing Web Services Network

**Project Sponsor:** Brenda Decker, CIO

**Date:** August 24, 2006

**Major Participants:** Nebr. Office of the CIO, Nebr. GIS Steering Committee, Nebr. Emergency Management Agency, Nebr. Dept. of Natural Resources, Nebr. Dept. of Environmental Quality, Nebr. Dept. of Roads, Nebr. Dept. of Agriculture, Nebr. Health and Human Services System, Nebr. Game and Parks Commission, UNL-CALMIT, Douglas County, City of Omaha, Sarpy County, City of Bellevue, City of Gretna, City of LaVista, City of Papillion, City of Springfield, Lancaster County, City of Lincoln

**Project Leader:** Steve Henderson, Information Technology Manager, Office of the CIO

**Project Team:** NE CIO: Steve Henderson, Information Technology Manager, Office of the CIO

NE GIS Steering Committee/CIO: Larry Zink, GIS Coordinator

NE Dept. of Natural Resources: Steve Rathje, Senior Analyst

NE Dept. of Environmental Quality: Dennis Burling, Information Technology Manager  
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NE Health and Human Services System: Chris Chalmers, GIS Coordinator

NE Emergency Management Agency: Sue Krogman, Information Tech. Administrator

NE Game and Parks Commission: Sudhir Ponnapan, GIS Specialist

NE Dept. of Agriculture: Tom Jensen, Division Administrator, Ag. Laboratories  
Craig Romary, Environmental Programs Specialist

UNL-Center for Advanced Land Mgmt. Info Tech.: Chad Boshart, Project Manager

Lincoln/Lancaster County: Jim Langtry, GIS Manager, County Engineer's Office

Omaha/Douglas County: Mike Schonlau, GIS Coordinator

Sarpy County: Eric Herbert, GIS Coordinator

**Project Vision:** The ability to quickly and reliably access and/or share up-to-date data between public agencies (state, local, regional, and federal) is critical in today's e-gov world. This is particularly true with the wide range of applications using GIS/geospatial technology, because so much of the power of GIS lies in its ability to integrate and analyze data from multiple sources - based on location or place.

The project participants envision the development of a Nebraska enterprise-level, geospatial data exchange network and related services. This data exchange network will enable agencies to access, in an automated on-demand mode, up-to-date data from multiple participating (state, local, regional, and federal) public agencies. Because some of the data of interest will be sensitive, security and permission protocols will be integrated into the overall network design. To encourage maximum participation and utility, this data exchange network will have both an open public access/view and a private-secure access/view component. When fully developed, this data exchange network will support a wide-range of GIS/geospatial applications that require regular, dependable access to up-to-date data from multiple sources and provide the technical

## PROJECT CHARTER

support to maintain these services and assist public entities to access and build applications based on these enterprise services.

**Project Overview:** The development of an intergovernmental geospatial data exchange network will involve a complex matrix of issues (networking, data exchange standards, data transformation, data documentation, security, data sharing agreements, enterprise administration requirements, operations and maintenance requirements analysis, data viewing and query applications, online data services, etc.).

To address this complex matrix of issues, the overall project has been divided into a series of project phases. Each phase is designed to achieve concrete deliverables and will, in and of itself, provide specific advances in interagency data exchange capabilities. Each project phase is also designed to build on the previous phases and to adjust based on the lessons learned in the previous phase. For example, sensitive data will not be available through the data exchange network until the later phases of the project, after security and permission protocols have been developed and tested. As part of this learning and building process, it is expected that the design of the project phases will evolve over time.

The data to be shared will be located in one of two types of sites. First is at the agency responsible for the data and the second is on established enterprise data repository servers (how the data is replicated will be determined on a case by case basis).

The overall project will be modeled after a regional interstate EPA data sharing network project, of which NDEQ is a partner. The lessons being learned and some of the applications developed, as part of that interstate project, will influence the development of this Nebraska data exchange network.

**Project Plan:** Phase 1.

- Create data repository(ies)
- Acquire hardware and software
- Establish network for data exchange
- Define initial information to populate repository
- Phase I Deliverables:
  - Ability to share/access data between limited subset of participating agencies
  - An initial requirements analysis for operations and maintenance
  - A report detailing lessons learned and what needs to be addressed during the next project phase
  - A “Go – No-go” recommendation for next phase

## PROJECT CHARTER

### Phase II.

- Refinement of Phase I processes for moving data between participating agencies
- Initial development of standards (data exchange, network, documentation)
- Initial assessment of security needs
- Initial assessment of administrative model and needs
- Initiate data sharing agreements process
- Phase II Deliverables:
  - Enhanced automated data access and population of repositories with non-sensitive data
  - Refinement of requirements for operations and maintenance and acquisition of initial dedicated technical staff resources
  - A report detailing lessons learned and what needs to be addressed during the next project phase
  - A “Go – No-go” recommendation for next phase

### Phase III.

- Finalize processes for moving data between participating agencies
- Finalize standards development
- Finalize security processes and protocols
- Finalize administrative model and needs
- Finalize data sharing agreement protocols
- Finalize requirements for operations and maintenance
- Initial development of open public viewing application
- Initiate sharing of web-mapping services and base geospatial information from the open public access/view component of the project with GOS and *The National Map*.
- Phase III Deliverables:
  - Enhanced automated data access and population of repositories with non-sensitive data
  - Refinement of requirements for operations and maintenance and acquisition of initial technical staff resources
  - A Go – No-go recommendation for next phase

### Phase IV.

- Implement Phase III recommendations, standards, and protocols
- Begin the process of incorporating sensitive data
- Phase III Deliverables:
  - Implement secure sharing of sensitive data within the network
  - Implement and expand public view component
  - Expand sharing of web-mapping services and base geospatial information from the open public access/view component of the project with GOS and *The National Map*.

## PROJECT CHARTER

<b>Cost Estimate:</b> Phase I –	Hardware & Software:	\$80,000
	Labor	Labor in initial phases of the project to be provided by existing technical and policy/coordination staff of participating state and local agencies
	Phase II, III, IV –	to be determined as the project progresses

### Project Funding:

It is clear to the project planning team that it will be necessary to have dedicated technical staff to sustain this new effort. However, there is also an appreciation that it is not easy initially to secure the financial commitments needed to provide technical staff, hardware, and software for new intergovernmental initiatives. To accelerate this project, organizations have agreed to contribute resources to help implement the initial phases. Some agencies have offered hardware; others have volunteered software; others financial contributions; virtually every organization has contributed valuable staff resources. At the same time, efforts are underway to identify additional funding to enhance this early effort.

Hardware/Software. Phase I hardware and software costs (approximately \$80,000) to be provided through grants. There is an outstanding grant proposal for \$43,000 to USGS for hardware and software for this project. Grant funding will also be pursued from NHHSS and the Omaha-area UASI to help cover the \$80,000 hardware/software total. If necessary to demonstrate the viability of the concept and build support for its full implementation, temporary re-allocation of existing hardware and software resources will be pursued to insure the implementation of at least the initial phases of this project.

Labor/Technical Support. Phase I & II labor costs provided by cooperating agencies (Nebraska Office of the CIO, Nebraska Department of Natural Resources, Nebraska Department of Roads, Nebraska Emergency Management Agency, City of Lincoln-Lancaster County, City of Omaha-Douglas County, and Sarpy County) by their commitment to temporarily divert technical support services, from existing agency staff, to help develop and support this (Phase I & II) implementation. It is anticipated that based upon Phase I & II implementation that a strong case can be made for the utility of this enterprise data-sharing network and the merits of providing on-going technical support. Current projections of the technical support needed for sustained development and maintenance of this service include:

GIS Database Administrator — \$58,000 - \$70,000 (\$83,00 to \$97,000 w/benefits)

GIS Programmer Analyst — \$58,000 - \$70,000 (\$83,000 to \$97,000 w/benefits)