



Meeting Summary

Strategic Initiative Action Items

Geodetic and Survey Control – Steve Cobb, State Surveyor gave a presentation on the Low-Distortion Projection efforts in the state. The idea of LDP is to minimize ground distortion and improve ways to get better data. It also makes it easier for surveyors to collect and focus on data for their specific geographic regions. This will allow them and others to move data into a GIS easily. Iowa did the same project for \$50,000 but they gave the process to Nebraska for free. All counties have been completed setting up the LDP process. It is ready to be used by land surveyors. Eventually an online database with all this information will be available.

Elevation – A plan for completing LiDAR in the state was provided and made available on the GIS Council website. http://nitc.ne.gov/gis_council/workgroups/elevation/index.html. The Sandhills project will complete the remainder of the state that does not have LiDAR. They are looking roughly at \$4.6 million dollars to finalize the remaining area. Based on nationwide metrics it could give a 5:1 benefit thus bringing back \$25 million to the state. The National Resource Conservation Service (NRCS) has been a big driver by providing substantial funding for this and prior projects. FEMA requirements have changed to QL2 for floodplain areas that require management plans. The USGS 3DEP program is getting ready for the next round of BAA proposals. They are looking at a July 25 date to announce the new program. August 9 – 11 will have webinars. An online [SeaSketch](#) tool which is an NOAA operative project, is available to look at areas of interest across the country. The Eastern Nebraska Urban project was awarded a 3DEP grant. It covers Lancaster, Douglas, Sarpy counties and cities of Blair and Fremont, and the I-80 quarter between Cass and Saunders. The plan for this project is to begin in the Fall.

Imagery – A webinar on “What Remote Sensing Can Do for You” is scheduled for June 8 from 10-11 am. It is provided by the University of Nebraska School of Natural Resources in partnership with the NITC GIS Council. The goal is to give an introduction to the wide variety of information imagery can provide. This will also give people an overview of what is out there and what type of training may need to be developed.

Land Records – The working group has been working with Department of Revenue. They are making plans to do another update on parcel boundaries and attribute information later this year. They are also have the coordination through the Property Assessment Division. Barb Oswald will be the point person for communication going to counties. Workflows have been put into place and that is going well. Kim Wessels is now on the GIS Council as a NACO representative. She is also part of the Assessor GIS committee. A small group will be meeting again this summer to finalize dates for data collections.

Street Centerline and Address – A core group is currently reviewing work flows and needs for constructing and maintaining the Nebraska Street Centerline and Address Databases. This goes towards developing the business plan. Mr. Christian is ready to get going on working on sample data sets. He is working on the Street Centerline database. Mr. Watermeier is working on the Address database. They are tracking the Federal Regulation and Federal Initiatives so they are also in alignment. Preliminary data schemas have been developed and will begin to be used to aggregate data. They have been looking at other case studies from other states to look at efficiencies in the development and maintenance workflows.

NebraskaMAP – Metadata standards have gone through the public review process and will go back to Tech Panel and to the NITC for final approval. The significant changes include adding more description to data to be collected. A Content Data Management Policy was also presented. It will be included on the NebraskaMAP website. As data requests start to come in it will eventually be updated into a NITC standard. July 5 is the target date for the release of NebraskaMAP. The metadata is the biggest time consumer for getting data in order to be submitted. The OCIO office will help those needing assistance to complete their metadata. Some of the new features to the site include feature datasets, map gallery, and news. There will only be one GIS repository for state government moving forward. This is one of the purposes behind NebraskaMAP to provide users one location to look for this data rather than several locations.

Census 2020

The Legislative Research office validated 93 counties for the May 31, 2016 deadline for the Boundary Block Suggestion Program (BBSP) through the US Census. In December they will get another dump of data from the Census that will need to be revalidated. The Voter District program will be starting in December. Ms. Dunn will be looking for Parks (National, Local), Cemeteries, Voter Districts, golf courses, City and County boundaries that the census wanted updated. She will find

ways to locate that information. Mr. Watermeier mentioned there are several other Census projects coming. One includes the Boundary and Annexation Survey (BAS) and the Local Update of Census Addresses (LUCA). The GIS Council initiatives are after the same information and suggested that we need to leverage these opportunities together rather than separate. This includes boundaries and addresses to support NG911 and the Nebraska Spatial Data Infrastructure (NESDI) boundaries initiative. Mr. Watermeier is working on a Census project fact sheet and will send this out once completed. Mr. Watermeier asked for volunteers for this project “Census 2020 Requirements for Boundaries.” It was also suggested to have a recommendation to the GIS Council to be on record and further identify this is a more formal process to ensure better coordination.

State GIS Enterprise

The State GIS Enterprise effort is moving forward with implementation. A plan has been put together for the core architecture for the servers and services. Data hosting has already been secured and is currently migrating data. Ed Toner provided an overview about the IT Consolidation plan. The plan consists of Infrastructure and Hardware consolidation. We started consolidating network and servers. That consists of moving toward a single domain and two main data centers. One data center is in Lincoln and the other is in Omaha. Those two are being replicated. The mainframe will be active in October. We are hoping to get most agencies move to the data center by the end of the year. GIS will be treated as an Enterprise solution this is set to be completed in the next 60 to 90 days. The definition of Enterprise is if an application is shared by two agencies. Agencies that have already consolidated are: State Patrol, Corrections (Network), and Agriculture. There are 90 counties that have been consolidated for two servers. The immediate overall benefits we are seeing are related to operating costs, Network equipment, and firewalls. This consolidation consists of Cabinet agencies with a few non-cabinet agencies that have come forward with a request to consolidate.

Mr. Watermeier reported there is a NITC Standard for Enterprise projects. He mentioned that the GIS Enterprise plan has been entered as a project in the Project Management system at OCIO. Many people have been putting a lot of time to help meet the aggressive timeline. We will be talking with some of our current software vendors during June as well to get additional costs.

Federal Initiative and News

Mr. Watermeier provided an update on the National Address Database. Department of federal highways would like to take lead on this and so does Census. There will be some discussion on who will start to be the lead on this project. Homeland security is putting together a Parcel Summit. There has been a public records request already by federal government partners to provide them parcel data the state has obtained.

Updates from Agencies Mr. Robbins indicated that LB938 passed the Legislature earlier this spring. At this time the State 911 Director position is open. It closes on June 13. A GIS position is open as well but not sure when it will be posted. They will wait to higher the coordinator position once selected. Mr. Schonlau reported that there should be new imagery next month for the Omaha, Lincoln and areas. If anyone is interested they should contact him.

Membership: There are four seats up for renewal in September. These include Nebraska Public Power, Member At Large, Lincoln Metro Area, and a Nebraska GIS professional association. Mr. Watermeier sent out notifications for the open seats. If anyone has suggestions or nominations, please send them forward. All nominations have to be in by June 30th. The nominations will be forwarded to the NITC GIS Council selection committee for review and then onto the NITC. The NITC including Ed Toner, Chair, can also nominate as well. All final nominees will be accepted based on the Governors final review.

Motions

Motions Carried:

- The March 2, 2016 minutes were approved.

Motions Failed:

There were no motions that failed.

I. Roll Call and Quorum	
Members Present: * <i>Authorized to Vote</i>	
<ul style="list-style-type: none"> * Tim Cielocha, Public Power Districts, Chair * <i>Jon Kraai</i>, Nebraska State Patrol, Vice Chair * <i>Bill Wehling</i>, Department of Roads * <i>Chad Boshart</i>, NEMA/Military Dept. * <i>Karis Bowen</i>, DHHS * Milda Vaitkus, Conservation and Survey Div., UNL * Lash Chaffin, League of Nebraska Municipalities Jim Langtry, USGS * <i>Josh Lear</i>, Department of Natural Resources * Jeff McReynolds, Lincoln Metro Area * <i>Jim Ohmberger</i>, Office of the CIO * <i>Sudhir Ponnappan</i>, Nebraska Game and Parks * Michael Schonlau, Member at Large * <i>Gary Morrison</i>, Dept. of Environmental Quality * Todd Wiltgen, NACO * Steve Cobb, State Surveyor * <i>Barb Oswald</i>, Property Tax Administrator * Chuck Wingert, NE Assoc. of Resource Districts * Kim Wessels, NACO * Cullen Robbins, Public Service Commission <p>* <i>Italicized names are designees to council seats.</i></p>	<p>Pat Larson, Member at Large <i>Erin Northwall</i>, Governor's Policy Research Office <i>Nancy Cyr</i>, Legislative Research Michael Preston, NE Geospatial Professional Assoc. Todd Whitfield, Member at Large Eric Herbert, Omaha Metro Area</p>
NITC Representatives:	Nathan Watermeier, GIS Council Coordinator; Ed Toner, Chief Information Officer
Public Visitors:	Jeff Timm, OCIO; Chad Kudym, Databank; Steve Rathje, DNR; Mike Munson, NDOR; Rob Christian, NDOR; Rose Braun, NDOR; Erik Hubl, LCED; Ken Hartwig, NDOR; John Beran, Surveyors; Janelle Bartels, GIS Workshop; Brooke Stansberry, USFWS/NDOR Liaison; Samantha Mettenbrink, NDOR

I-III. General Meeting Formalities (continued)	
Roll Call and Quorum	The Chair, Tim Cielocha, called the meeting to order at 1:05 p.m. Roll call was taken. There were 20 members present at the time of roll call. A quorum was present to conduct official business. One member left at 2:30.
Introduction of Audience Attendees	Public visitors were welcomed and were asked to introduce themselves if they wished. Visitors who wished to identify themselves as attending the meeting were to sign the visitor log and their name and affiliation would be reported in the minutes.
Public Meetings Regulations and Posting of the Same	NITC/GIS Council Homepage Meeting notice posted on the Nebraska Public Meeting Calendar on 11-13-2015 and agenda posted on GIS Council website 05-20-2016.
Approval of Minutes from Previous Meeting	Mr. McReynolds moved to approve the March 2, 2016 meeting minutes as presented. Mr. Schonlau seconded. Roll call vote: Ohmberger-Yes, Morrison-Yes, Bowen-Yes, Vaitkus-Abstained, Lear-Yes, Wehling-Yes, Cobb-Yes, Ponnappan-Yes, Oswald-Yes, Langtry-Yes, Cielocha-Abstained, Schonlau-Abstained, Wingert-Abstained, Wiltgen-Abstained, Wessels-Yes, Chaffin-Yes, Boshart-Yes, Robbins-Abstained, Kraai-Yes, McReynolds-Yes. Results: Yes-14, No-0, Abstained-6. Motion carried.

IV. INTRODUCTION OF NEW MEMBERS

Awards were presented to the past chair positions. Thank you to Bill Wehling, Past Chair, Tim Cielocha, Past Vice-Chair and welcome Jon Kraai as new Vice Chair. Tim Cielocha moves into the Chair position.

V. STRATEGIC INITIATIVE ACTION ITEMS

DISCUSSION

Geodetic and Survey Control by Steve Cobb

http://nitc.ne.gov/gis_council/meetings/docs/6-1-16/GISCouncilLDP060116.pdf

An issue we have in our state is a weak Public Land Survey System (PLSS). The idea of having a Low-Distortion Projection (LDP) is to minimize ground distortion and improve ways to get better data. It also makes it easier for surveyors to collect and focus on data for their specific geographic regions. This will allow them and others to move data into a GIS easily. The initial benefits of LDP result in consistent mapping from surveys and ease of conversion to other projections on the fly. LDP helps reduce the points on vertical accuracy. Lancaster, Platte, Hall and Scotts Bluff Counties already have LDP data being collected. Iowa did the same project for \$50,000 but they gave the process to Nebraska for free.

Mr. Cobb is working with Land Surveyors to introduce LDP and show how to use it. Currently, surveyors are collecting coordinate data but not necessarily sharing it. Eventually an online database with all this information will be available. The information is out there for many of the counties but not accessible. Some may not need it but people dealing with property lines, this would be very beneficial. To get this level of precision would require investments of \$25,000 to \$30,000 for a survey grade GPS system.

Questions:

Is this being done county by county? All counties have been completed setting up the LDP process. The only counties they combined were Sarpy and Douglas because that was logical. They split Cherry because it was so big.

What can the GIS Council do to support this effort? We haven't worked through all the details yet but Mr. Cobb will keep the Council updated on where there are places to help.

Mr. Cobb is willing to share his knowledge on this topic, contact him for more details.

Elevation by Nathan Watermeier, Jim Langtry, Michael Schonlau

A plan for completing LiDAR in the state was provided and made available on the GIS Council website. http://nitc.ne.gov/gis_council/workgroups/elevation/index.html. The Sandhills LiDAR project further formalizes partnerships to complete LiDAR coverage where they don't have it in the state. The handout provides an idea on the derivatives products. Bill Wehling added that NDOR will be participating. They are looking roughly at \$4.6 million dollars to finalize the remaining area. Based on nationwide metrics it could give a 5:1 benefit thus bringing back \$25 million to the state. Each state could be a little different on how they calculate return on investment. The National Resource Conservation Service (NRCS) has been a big driver by providing substantial funding for this and prior projects. FEMA requirements have changed to QL2 for floodplain areas that require management plans. They would like to finalize the agreements this summer with USGS for the Sandhills project. Contact Doug Hallum or Nathan Watermeier for any questions on this and future statewide partnerships on LiDAR. The NRCS money may not wait so we do need people to respond quickly.

Jim Langtry announced that the USGS 3DEP program is getting ready for the next round of BAA proposals. They eliminated the preproposal which gave people an idea of where they were prior to the submission of the full-proposal. The proposal period does stay open in case some get denied, they will be able to resubmit their proposal. They are looking at a July 25 date to announce the new program. August 9 – 11 will have webinars. The proposals will be due the first part of October. They will go through the evaluation, take a look on the budget and then make the awards November 1 through first part of January.

In conjunction with the 3DEP program, a SeaSketch tool which is an NOAA operative project, is available to look at areas of interest across the country. We do have federal agencies and invite the

public to provide their foot print of the areas they are interested in on this online mapping tool. This allows us to see the greatest need and where multiple partners are showing areas of common interest.

The USGS initiative has been completed at QL3 over the past 8 to 10 years. It is just this past year that program requirements changed to QL2. The South Platte, North Frontier NRCS and this new project which will be QL2. The new data and will give us an opportunity to review the data with higher density and more accurate foot print. The South Platte LiDAR project has been completed. Delivery should be next spring but could be this fall.

Michael Schonlau provided an update on the Eastern Nebraska Urban project. This project was awarded a 3DEP grant. It covers Lancaster, Douglas, Sarpy counties and cities of Blair and Fremont, and the I-80 quarter between Cass and Saunders. The plan for this project is to begin in the Fall.

Imagery – Milda Vaitkus

There is an announcement of a webinar that is available next Wednesday. The goal is to give an introduction to the wide variety of information imagery can provide. There is a lot of satellite imagery that is not being used. This will give people an overview of what is out there and what type of training may need to be developed. This Webinar will be only 1 hour starting at 10:00 AM.

Land Records – Nathan Watermeier

The working group has been working with Department of Revenue. They are making plans to do another update on parcel boundaries and attribute information later this year. They have outlined some goals. They are also have the coordination through the Property Assessment Division. Barb Oswald will be our point person for communication going to counties. Workflows have been put into place and that is going well. Kim Wessels is part of the Assessor GIS committee. A small group will be meeting again this summer to finalize dates for data collections.

Street Centerline and Address – Rob Christian, Nathan Watermeier

They are currently reviewing work flows to make sure they are not duplicating efforts. Rob is ready to get going on working on sample data sets. Mr. Christian is working on the Street Centerline database Mr. Watermeier is working on the Address database. They are tracking the Federal Regulation and Federal Initiatives so they are also in alignment. Preliminary data schemas have been developed and will begin to be used to aggregate data. They have been looking at other case studies from other states to look at efficiencies.

NebraskaMAP – Nathan Watermeier

Metadata standards have gone through the public review process. There were no public comments. It will go back to Tech Panel, then to the NITC for final approval. The significant changes is adding more description to data to be collected. A Content Data Management Policy was also presented. It will be included on the NebraskaMAP website. As data requests start to come in it will eventually be updated into a NITC standard. July 5 is the target date for the release of NebraskaMAP. The metadata is the biggest time consumer for getting data in order to be submitted. The OCIO office will help those needing assistance to complete their metadata. Some of the new features to the site include feature datasets, map gallery, and news. Nathan is looking for feedback on things that we could be featuring during particular times of the year.

Questions:

Is contribution to NebraskaMAP voluntary or is there a policy? We will be engaging all of the publicly accessible data through the State through NebraskaMAP. The Data Committee will continue to go through the data inventory process. There are still many data sets that need metadata completed prior to submission. Most of our standards for specific data sets now require to be posted to NebraskaMAP. It is a voluntary process by other data stewards to make it available on NebraskaMAP. Now we have a policy and process to do that.

Is it expected that all state agencies use the same GIS repository? Yes. There will only be one GIS repository for state government. This is one of the purposes behind NebraskaMAP to provide users one location to look for this data rather than several locations.

VI. CENSUS 2020**DISCUSSION**

The Legislative Research office validated 93 counties for the May 31, 2016 deadline for the Boundary Block Suggestion Program (BBSP) through the US Census. There are a total of 7 steps conducted to collect data for the 2020 Census. Casey Dunn has collected data from some of the counties that needed to make changes. In December they will get another dump of data from the Census that will need to be revalidated. This is an extra step because this is the first year it will all be completed digitally (online). The Voter District program will be starting in December. She has no information on how that will be completed at this time.

Ms. Dunn will be looking for Parks (National, Local), Cemeteries, Voter Districts, golf courses, City and County boundaries that the census wanted updated. She will find ways to locate that information. Lash Chaffin offered assistance in finding that information. Ms. Dunn indicated that the majority of her information was obtained from emails initially then followed through with phone calls to the counties.

Mr. Watermeier mentioned there are several other Census projects coming. One includes the Boundary and Annexation Survey (BAS) and the Local Update of Census Addresses (LUCA). The GIS Council initiatives are after the same information and suggested that we need to leverage these opportunities together rather than separate. This includes boundaries and addresses to support NG911 and the Nebraska Spatial Data Infrastructure (NESDI) boundaries initiative. Mr. Watermeier is working on a Census project fact sheet and will send this out once completed.

Some municipalities are already working on these efforts but there are still some that are not aware or know how best to provide the information. It is something this Council can help identify. Training may help obtain participation with those offices that have the information. The OCIO office is also working with an online map viewer to solicit changes and feedback on boundaries.

Mr. Watermeier asked for volunteers for this project "Census 2020 Requirements for Boundaries." Kim Wessels offered to assist. There was an individual from UNO that has an interest in participating as well. Students would be good for assigning tasks to as well. It was also suggested to have a recommendation to the GIS Council to be on record and further identify this is a more formal process to ensure better coordination.

Todd Wiltgen left the meeting.

VII. STATE GIS COORDINATORS REPORT**DISCUSSION****State GIS Enterprise**

The State GIS Enterprise effort is moving forward with implementation. A plan has been put together for the core architecture for the servers and services. Data hosting has already been secured and is currently migrating data.

Ed Toner provided an overview about the IT Consolidation plan. The plan consists of Infrastructure and Hardware consolidation. We started consolidating network and servers. That consists of moving toward a single domain and two main data centers. One data center is in Lincoln and the other is in Omaha. Those two are being replicated. The mainframe will be active in October. We are hoping to get most agencies move to the data center by the end of the year.

The resource side is being consolidated in three phases.

1. Network – is completed. All network resources are part of the OCIO.
2. Server Admins & Enterprise Applications – GIS is part of the Enterprise this is set to be completed in the next 60 to 90 days.
3. Desktop Support Services is scheduled for 2017. Agency specific applications will not be consolidated at this time.

The definition of Enterprise is if an application is shared by two agencies. Agencies that have already consolidated are: State Patrol, Corrections (Network), and Agriculture. There are 90 counties that have been consolidated for two servers. DHHS is scheduled by the end of the year. Corrections and Roads are others that are scheduled. The immediate overall benefits we are seeing are related to

	<p>operating costs, Network equipment, and firewalls. This consolidation consists of Cabinet agencies with a few non-cabinet agencies that have come forward with a request to consolidate.</p> <p>Mr. Watermeier reported there is a NITC Standard for Enterprise projects. He mentioned that the GIS Enterprise plan has been entered as a project in the Project Management system at OCIO. Many people have been putting a lot of time to help meet the aggressive timeline. We will be talking with some of our current software vendors during June as well to get additional costs. Some of the things that need to be considered with this consolidation is: Security, Active Directory, Firewall, SQL, Work Flows, Data, and cloud hosting.</p> <p>Federal Initiative and News National Address Database. Mr. Watermeier provided an update on the National Address Database. Department of federal highways would like to take lead on this and so does Census. There will be some discussion on who will start to be the lead on this project.</p> <p>Homeland security is putting together a Parcel Summit. There has been a public records request already by federal government partners to provide them parcel data the state has obtained. By statute, Mr. Watermeier will be required to provide it to those requesting.</p> <p>Nathan will be getting a report from others that are participating at the Parcel Summit and he will share that with the Council.</p>
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VIII. UPDATES FROM MEMBER AGENCIES

DISCUSSION	<p>Cullen Robbins indicated that LB938 passed the Legislature earlier this spring. They are working to get the positions filled that were part of it. At this time the State 911 Director position is open. It closes on June 13. A GIS position is open as well but not sure when it will be posted. They will wait to higher the coordinator position once selected. Questions can be directed to Cullen Robbins for more details.</p> <p>Mr. Schonlau reported that there should be new imagery next month for the Omaha, Lincoln and areas. If anyone is interested they should contact him.</p>
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IX. OTHER BUSINESS

DISCUSSION	<p>There are four seats up for renewal in September. These include Nebraska Public Power, Member At Large, Lincoln Metro Area, and a Nebraska GIS professional association.</p> <p>Mr. Watermeier sent out notifications for the open seats. If anyone has suggestions or nominations, please send them forward. All nominations have to be in by June 30th. The nominations will be forwarded to the NITC GIS Council selection committee for review and then onto the NITC. The NITC including Ed Toner, Chair, can also nominate as well. All final nominees will be accepted based on the Governors final review.</p>
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X. INVITATION FOR PUBLIC COMMENT FROM ATTENDEES

DISCUSSION	There was no public comment.
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Meeting Conclusion	
Adjournment	<p>Mr. Schonlau moved to adjourn the meeting. Mr. McReynolds seconded. All were in favor. Motion carried.</p> <p>The meeting was adjourned at 2:52 p.m.</p>
Next Meeting	The next meeting will be September 7, 2016, 1:00-3:30 p.m. at the Department of Roads, Lincoln Nebraska.

Meeting minutes were taken by Pat Cruz and reviewed by Nathan Watermeier of the Office of the CIO/NITC.