

**AGENDA**  
**NEBRASKA INFORMATION TECHNOLOGY COMMISSION**  
**Regional West Medical Center-Education Center**  
**4021 Avenue B**  
**Scottsbluff, Nebraska**  
**Thursday, July 14, 2016**  
**10:00 a.m. (Mountain Time)**

- |            |   |   |
|------------|---|---|
| 10:00 a.m. | <ol style="list-style-type: none"><li>1. Call to Order; Roll Call; Meeting Notice; and Open Meetings Act Information</li><li>2. New Commissioner Introductions</li><li>3. Approval of Minutes* - March 10, 2016 (<i>Attachment 3</i>)</li><li>4. Public Comment</li></ol>   | Chair   |
| 10:10 a.m. | <ol style="list-style-type: none"><li>5. Reports and Action Items from the Councils and Technical Panel<ol style="list-style-type: none"><li>a. State Government Council Report (<i>Attachment 5-a</i>)<ol style="list-style-type: none"><li>i. CIO Roadmap</li></ol></li><li>b. Community Council Report (<i>Attachment 5-b</i>)<ol style="list-style-type: none"><li>i. Broadband Map</li><li>ii. Broadband and Mobile Internet Services in Nonmetropolitan Nebraska</li><li>iii. Broadband Nebraska Newsletter</li></ol></li><li>c. eHealth Council Report (<i>Attachment 5-c</i>)<ol style="list-style-type: none"><li>i. Advance Interoperable Health IT Services to Support Health Information Exchange Cooperative Agreement</li></ol></li><li>d. Education Council Report (<i>Attachment 5-d</i>)<ol style="list-style-type: none"><li>i. Membership*</li><li>ii. Network Nebraska and Digital Education Updates</li></ol></li><li>e. GIS Council Report (<i>Attachment 5-e</i>)<ol style="list-style-type: none"><li>i. Membership*</li><li>ii. Statewide LiDAR Project</li><li>iii. NebraskaMAP</li></ol></li><li>f. Technical Panel Report<ol style="list-style-type: none"><li>i. Charter Amendments* (<i>Attachment 5-f-i</i>)</li><li>ii. Standards and Guidelines<ol style="list-style-type: none"><li>1. Amendments to NITC 1-201* (<i>Attachment 5-f-ii-1</i>)</li><li>2. Amendments to NITC 1-202* (<i>Attachment 5-f-ii-2</i>)</li><li>3. Amendments to NITC 3-201* (<i>Attachment 5-f-ii-3</i>)</li></ol></li></ol></li></ol></li></ol> | Ed Toner<br><br>Anne Byers<br><br><br><br><br><br>Tom Rolfes<br><br><br><br>Bill Wehling<br><br><br>Walter Weir |

iii. Enterprise Projects

1. Approval of the Closure of the Network  
Nebraska Project – Office of the CIO;  
University of Nebraska; and NET\*
2. Status Report (*Attachment 5-f-iii-2*)

11:30 a.m.	6. Informational Items	Ed Toner
	a. Update on Security Audits	
	b. Nebraska Cyber Security Conference - September 29	
	c. Cloud Computing Update	
	d. OCIO Solution Architect	
	e. OCIO Public Information Officer	
11:45 a.m.	7. Presentation: City of Scottsbluff – Pathways in GIS	Commissioner Meininger
12:30 p.m.	8. Adjourn	Chair

The Nebraska Information Technology Commission will attempt to adhere to the sequence of the published agenda, but reserves the right to adjust the order of items if necessary and may elect to take action on any of the items listed.

Meeting notice was posted to the [NITC website](#) and the [Nebraska Public Meeting Calendar](#) on June 23, 2016. The agenda was posted to the NITC website on July 8, 2016.

Nebraska Open Meetings Act

Future Meeting Dates:

- November 10, 2016
- March 9, 2017
- July 13, 2017
- November 9, 2017

**Video Conference Site**

Public Participation [Neb. Rev. Stat. § 84-1411(6)]

**Nebraska Educational Telecommunications**

**Lower Level Conference Room**

**1800 North 33rd Street**

**Lincoln, Nebraska**

**NEBRASKA INFORMATION TECHNOLOGY COMMISSION**

Nebraska Innovation Campus  
2021 Transformation Drive, Lincoln, Nebraska  
Thursday, March 10, 2016, 10:00 a.m.

**MINUTES**

**MEMBERS PRESENT:**

Ed Toner, Chief Information Officer, Chair  
Donna Hammack, Saint Elizabeth Foundation  
Dorest Harvey, US Strategic Command/J84  
Randy Meininger, City of Scottsbluff (via teleconference, non-voting)  
Brad Moline, Allo Communications  
Walter Weir, University of Nebraska

**MEMBERS ABSENT:** Senator Curt Friesen, Nebraska Legislature; Dr. Terry Haack, Bennington Public Schools; Dan Shundoff, Intellicom; and Gary Warren, Hamilton Telecommunications

**ROLL CALL, NOTICE OF MEETING & OPEN MEETINGS ACT INFORMATION**

The meeting was called to order at 10:14 a.m. Roll call was taken. A quorum was present. The meeting notice was posted to the NITC website and the Nebraska Public Meeting Calendar on February 17, 2016. The agenda was posted to the NITC website on March 4, 2016. A copy of the Nebraska Open Meetings Act was located on the table at the front of the room.

**APPROVAL OF MINUTES\* - NOVEMBER 12, 2015**

**Commissioner Harvey moved to approve the November 12, 2015 meeting minutes. Commissioner Hammack seconded. Roll call vote: Toner-Yes, Hammack-Yes, Harvey-Yes, Moline-Yes and Weir-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**REPORTS AND ACTION ITEMS FROM THE COUNCILS AND TECHNICAL PANEL**

**EHEALTH COUNCIL REPORT**

**Approval of Membership Change\***. The eHealth Council has two nominations for membership to the eHealth Council:

- **Rama Kolli**, vice president information services and chief information officer for Blue Cross and Blue Shield of Nebraska, has been nominated to replace Susan Courtney also from Blue Cross and Blue Shield of Nebraska.
- **Linda Wittmuss**, deputy director, system integration, DHHS, Division of Behavioral Health, has been nominated to replace Sheri Dawson, Director of the DHHS Division of Behavioral Health.

The Community Council is asking for the NITC's approval of these nominations.

**Commissioner Weir moved to approve the eHealth Council's council member nominations. Commissioner Moline seconded. Roll call vote: Weir-Yes, Moline-Yes, Harvey-Yes, Hammack-Yes, and Toner-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

**eHealth Council and eHealth Action Item Update.** The eHealth Council will meet on March 17 to get an update on grant activities and discuss other issues. Implementing the grant is the eHealth Council's key action item. Additional information on the status of eHealth in Nebraska and the status of grant activities was included in the meeting materials.

**Advance Interoperable Health IT Services to Support Health Information Exchange Grant.** In July 2015, the Nebraska Information Technology Commission received a \$2.7 million cooperative agreement from the U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology. Grant partners include the Nebraska Health Information Initiative (NeHII) and the

University of Nebraska Medical Center (UNMC). On January 26-27, 2016, the project officer, Zoe Barber, made a site visit to Omaha and Lincoln. She was very impressed with the work on the Nebraska grant to date and the engagement of the team members and stakeholders. Meetings with stakeholders during the site visit have helped move grant activities forward. A status report of grant activities is included in the meeting materials. In her written report, Ms. Byers stated, "We have a great team and are making significant progress. I would like to thank our project partners, NeHII and UNMC, for their hard work in implementing this grant. Deb Bass, CEO of NeHII, and Rachel Houseman, project manager for NeHII, will be giving an overview of NeHII and an update on the grant during the meeting."

Ms. Bass proceeded with the Advanced Interoperability & Health Information Exchange Grant [presentation](#).

Ms. Bass entertained questions from the commissioners.

## STATE GOVERNMENT COUNCIL REPORT

**CIO Roadmap.** Commissioner Toner provided an update on the status of the CIO Roadmap, including updates on desktop standards, mainframe upgrade, and IT consolidation.

Mr. Toner entertained questions from the commissioners.

## COMMUNITY COUNCIL REPORT

**Nebraska Broadband Today!** The Nebraska Broadband Initiative (Nebraska Public Service Commission, University of Nebraska, NITC, and AIM) and the Nebraska Telecommunications Association are partnering on a conference which promotes the use of broadband in communities. The conference will be held May 24, 2016 at the Cornhusker Marriott. A draft agenda is included in the meeting materials. Commissioners are welcome to attend.

**Broadband Mapping and Availability.** The Nebraska Public Service Commission is working with telecommunications providers to update the Nebraska broadband map. The updated map will be unveiled at the Nebraska Broadband Today conference. The FCC included some updated information on state broadband availability in their *2015 Broadband Progress Report* released February 4. As of December 31, 2014, broadband service of at least 25 Mbps down was available to 84% of Nebraskans. The chart in the attached handout shows the steady increase in availability.

**Community Council Meeting and Action Items.** The Community Council will meet at 9:30 a.m. on March 31. A joint meeting with representatives of the Education Council is scheduled at 1:00 to discuss the joint action items. A status report of action items is included in the meeting materials.

## EDUCATION COUNCIL REPORT

**Network Nebraska.** On March 31, Education Council representative will be meeting with the Community Council to discuss collaboration of broadband initiatives. Nebraska has been designated as the third highest state in the country with respect to the proportion of public libraries that are small and remote. Most libraries are served by DSL and do not engage in filtering so they are not eligible for E-rate funding on their Internet services. The FCC is promoting the E-rate program to libraries and is offering a path to apply. Commissioner Moline stated that his company's services are eligible for E-rate subsidies in Lincoln and will be looking at providing this statewide.

The Education Council met on February 17 and ended with the work groups meeting to work on action items. The next Education Council meeting will be held on April 26 at the Do Space in Omaha. The CAP (Collaborative Aggregation Partnership) work group met on March 9 to discuss Network Nebraska operations. The statewide network is seeing more and more nighttime Internet usage by K12 entities.

Contract negotiations are still underway for the 340 circuits that were bid by State of Nebraska RFP 5153. Seven of the thirteen contracts are close to being done. Network Nebraska's total budget hovers around \$1.4 million per year. That includes the statewide backbone, all hardware, software and support services, and total combined Internet purchase. To compare, the Utah Education Network's annual budget is \$32 million. Commission Weir commended the work of the OCIO and CAP with the Network Nebraska initiative.

**Digital Education.** NeSA online testing--one of the NITC's enterprise projects--has been having some issues with technical reliability, particularly with the Writing tests. The OCIO will be working with the Commissioner Blomstedt of the Nebraska Department of Education to address these issues. The contract is renewable at the end of the year and the peak testing period is just beginning. A status report of action items is included in the meeting materials. Mr. Rolfes entertained questions from the Commissioners.

## **GIS COUNCIL REPORT**

**NebraskaMAP.** NebraskaMAP is the online gateway to get access to Nebraska's authoritative geospatial data. The current NebraskaMAP metadata clearinghouse is being replaced by a new and improved platform to deliver data and information on various platforms. The new system formalizes communication with all statewide data stewards to keep data current while exercising the importance of authoritative and quality data for public consumption. The clearinghouse is planning to go to public release in April. The following are recent updates to this initiative:

- Metadata is required for data sets to be included through NebraskaMAP. New modifications to the existing Metadata Standards (NITC 3-201) have been approved by the GIS Council and have been submitted to the NITC Technical Panel for next steps in the review process. The new changes provide clearer definitions on minimum and complete metadata categories for use with creating and maintain geospatial data sets.
- A data content and management policy has been approved through the GIS Council to outline expectations for open geospatial data to be made available through NebraskaMAP. This policy serves as instructions on what kind of data is acceptable and the necessary requirements when submitting data.
- A new NebraskaMAP Data Subcommittee has been formed to peer-review data requests. A workflow is in place to accept requests, review metadata, and publish data to the clearinghouse.
- A data management system has been developed and is in final stages of testing. This system is tied to our metadata standards using the ISO 19115 categories. This allows for content to be found by searching standardized tags and types of content. It also provides a mechanism to feed our holdings into the national GISInventory.net clearinghouse.
- The front landing page is being developed to incorporate search capabilities, featured datasets, news feeds for new data submissions and other news. Additional phases are planned after the initial release to include a map gallery and map viewer access to large scale raster data sets such as imagery, soils, and elevation data and map services.

**State of Nebraska GIS Enterprise System.** The GIS Enterprise System planning effort has been underway since the fall 2015 and it follows the OCIO Roadmap strategic goals. It supports an enterprise approach to applications and support services for all state agencies involved with geospatial and GIS data and technologies. This enterprise effort is being implemented in tandem with the OCIO Roadmap 3-phase Implementation Plan which emphasizes security, consolidation, and availability for IT functions across agencies. The following are key updates:

- An initial assessment survey had been sent out the first week in January to core agencies hosting and serving web GIS services. The final agency report was received last week and is being summarized. This provides a snapshot of where efficiencies can be achieved.
- GIS Enterprise is assigned as a project through the OCIO Project Management Office. Currently, the project is identifying metrics to support cost savings and timelines for implementation.

- The OCIO Open Systems and Networking teams are preparing initial architectural framework protocols and processes to support our large data holdings and services. We are starting with secure data and services in this process first.
- Secure protocols are being implemented that include named users and establishment of active directory framework tied to all file and web map services.
- New secure SAN file storage drives have been completed. The OCIO is currently migrating large data sets such as imagery, LiDAR and other NESDI data layers commonly used across state agencies. Specific secure data file storage have been allocated to support secure data sets (e.g., HSIN, and other common data shared across agencies).
- The NebraskaMAP Data Subcommittee is reviewing and prioritizing commonly used base maps. Other feature map services will be reviewed next.
- A new data analysis and web serving platform has been installed and configured. This platform supports “Big Data” such as statewide imagery, LiDAR, soils, and land cover.

**Census 2020 Projects.** This is a new project that started in November of 2015 and further supports the NESDI Strategic Initiative. The State of Nebraska has partnered with the U.S. Census Bureau to provide coordination towards the 2020 Decennial Census. The U.S. Census has several projects from 2016 through 2020 that will be engaged to collecting and improving their current geographic framework involving boundaries, street centerlines, and addresses. This level of coordination provides a framework for responsibilities and sharing data while implementing a regular and ongoing collection of local government GIS/Geospatial data. This will not only satisfy the needs of the U.S. Census Bureau, but support other initiatives (e.g., public safety, emergency management, NG9-1-1) while supporting the current Nebraska Spatial Data Infrastructure (NESDI) Strategic Initiative led by the NITC GIS Council. Data maintained and provided through the NESDI will be “rolled-up” to federal partners such as the U.S. Census to achieve their goals. The NITC GIS Council, Nebraska Legislative Research Office, Office of the Chief Information Officer, and Nebraska Department of Roads have already began coordination efforts through policy, standards, and operational oversight to many of these data collection activities to support the NESDI. This coordinated effort reduces duplication of effort, assures data quality, while reducing the burden solely on local government in Nebraska.

**Geospatial Preparedness Plan.** This is a new project that started during the fall of 2015 and further supports the NESDI Strategic Initiative and the GIS Enterprise. There is currently no formal plan in place for handling and sharing of secure datasets across state agencies to support emergency management, public safety, health, bio-security, homeland security, and Cyber Security. Past experiences in response to emergencies have been more reactive than preparing when it comes to supplying critical geospatial data and maps. An initial group of representatives from OCIO, State Patrol, Nebraska Emergency Management Agency, Department of Roads, and Department of Health and Human Services met to assess the current situation and future needs. They outlined specific issues and needs and have begun to work towards a Geospatial Preparedness Plan.

A status report of action items is included in the meeting materials. Mr. Watermeier entertained questions from the Commissioners.

## **TECHNICAL PANEL REPORT**

### **Enterprise Projects - Approval of the Closure of the LINK Procurement Project - Dept. of Administrative Services\***

The Technical Panel recommends closing the LINK Procurement Project. The agency appeared before the Panel and provided a closeout report. The agency has abandon the project.

**Commissioner Moline moved to close the LINK Procurement Project. Commissioner Hammack seconded. Roll call vote: Toner-Yes, Hammack-Yes, Harvey-Yes, Moline-Yes and Weir-Yes. Results: Yes-5, No-0, Abstained-0. Motion carried.**

## **Enterprise Projects - Status Report**

Commissioner Weir provided an update on the status of the Enterprise Projects and entertained questions from the Commissioners.

### **INFORMATIONAL ITEMS**

**Statewide Technology Plan.** The [Nebraska Statewide Technology Plan](#) has been posted to the NITC website.

**County Upgrades.** The OCIO Intergovernmental Data Services team has been working with counties to consolidate their servers under the Office of the CIO. Out of the ninety-three (93) counties, eighty-five (85) of the Nebraska counties have consolidated.

### **PRESENTATION: NEBRASKAMAP – GEOSPATIAL DATA SHARING AND WEB SERVICES NETWORK**

Mr. Watermeier proceeded with a demonstration of the new proposed NebraskaMAP website. He entertained questions from the Commissioners.

### **OTHER BUSINESS**

There was no other business.

### **ADJOURN**

**Commissioner Harvey moved to adjourn. Commissioner Moline seconded. All were in favor. Motion carried.**

The staff of the Office of the CIO will be working with Commissioner Meininger to host the summer meeting on July 14, 2016 in Scottsbluff, Nebraska.

The meeting adjourned at 12:55 p.m.

Attachment 5-a

<b>NITC Strategic Initiatives Status Report</b>			
<b>Strategic Initiative, Action Item and Deliverable/Target</b>			
<b>State Government IT Strategy</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Single Help Desk Solution - Incident Management Implementation</b>		
1.1	Implement solution and migrate initial group of agencies.	Completed	
1.2	Migrate remaining agencies in phases.	In progress	
<b>2</b>	<b>Service Catalog Implementation</b>		
2.1	Create service catalog for OCIO.	Completed	
<b>3</b>	<b>Change Management Solution Implementation</b>		
3.1	Implement change management solution for OCIO.	In progress	
3.2	Add other cabinet agencies.	Not started	
<b>4</b>	<b>Enhance Information Security</b>		See IT Security Initiative.
<b>5</b>	<b>Enhanced Operations Center</b>		
5.1	Develop system performance reports and dashboards.	In progress	
5.2	Combine Operations and Help Desk.	In progress	
5.3	Implement fully functional 24/7 Operations Center.	In progress	
5.4	Migrate from Help Desk to Service Desk.	In progress	
5.5	Establish Problem Management process.	In progress	
5.6	Establish Service Manager Program.	Completed	
<b>6</b>	<b>IT Cost Efficiencies</b>		
6.1	Review process in support of the State's IT spending.		See State IT Spending Analysis Initiative.
6.2	Assess environment, including existing infrastructure and applications, through Agency IT Plans.	Completed	
6.3	Enhance server virtualization and optimization.	In progress	
6.4	Implement a configuration management database (CMDB) and full asset management processes.	In progress	
6.5	Develop a Cloud Strategy		See Cloud Strategy Initiative.
6.6	Develop a Mobile Application Platform Strategy.	In progress	
<b>7</b>	<b>Operationalize IT and Project Governance</b>		

7.1	Enterprise Application governance (i.e., Service Desk tool)	Completed	
7.2	Enterprise Project Governance through the Project Management Office	Completed	
7.3	Enterprise Infrastructure Governance	Not started	
<b>8</b>	<b>Consolidate on STN Domain</b>		
8.1	Implement phased migration.	In progress	
<b>9</b>	<b>Data Center Consolidation - Agency Server Migration</b>		
9.1	Implement phased migration.	In progress	
<b>10</b>	<b>Initiate Active/Hot Standby Solution - Enterprise Apps</b>		
10.1	Install core network equipment at both locations.	Completed	
10.2	Implement phased migration.	In progress	
<b>Cloud Strategy</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Develop a strategy for the use of cloud-based services by Nebraska state government.</b>		
1.1	Cloud Strategy Document	In progress	Draft document posted for 30-day comment period.
<b>State IT Spending Analysis</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Create new accounting codes to better capture IT-related spending.</b>		
1.1	Develop new accounting codes and definitions.	Completed	
1.2	Pilot test new codes.	Completed	
1.3	Roll-out new codes to cabinet agencies.	Completed	
<b>2</b>	<b>Develop reporting tools using the new accounting codes.</b>		
2.1	Design reports to be generated by the accounting system using the new codes.	In progress	
<b>3</b>	<b>Prepare an analysis of information technology spending by Nebraska state government.</b>		
3.1	IT Spending Analysis Document	Not started	
<b>IT Security</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Complete Mobile Device Management solution implementation (MaaS360 from Fiberlink / IBM).</b>		
1.1	MaaS360 will be installed on all mobile devices authenticating to the State of Nebraska network.	In progress	An alternative solution has been selected.

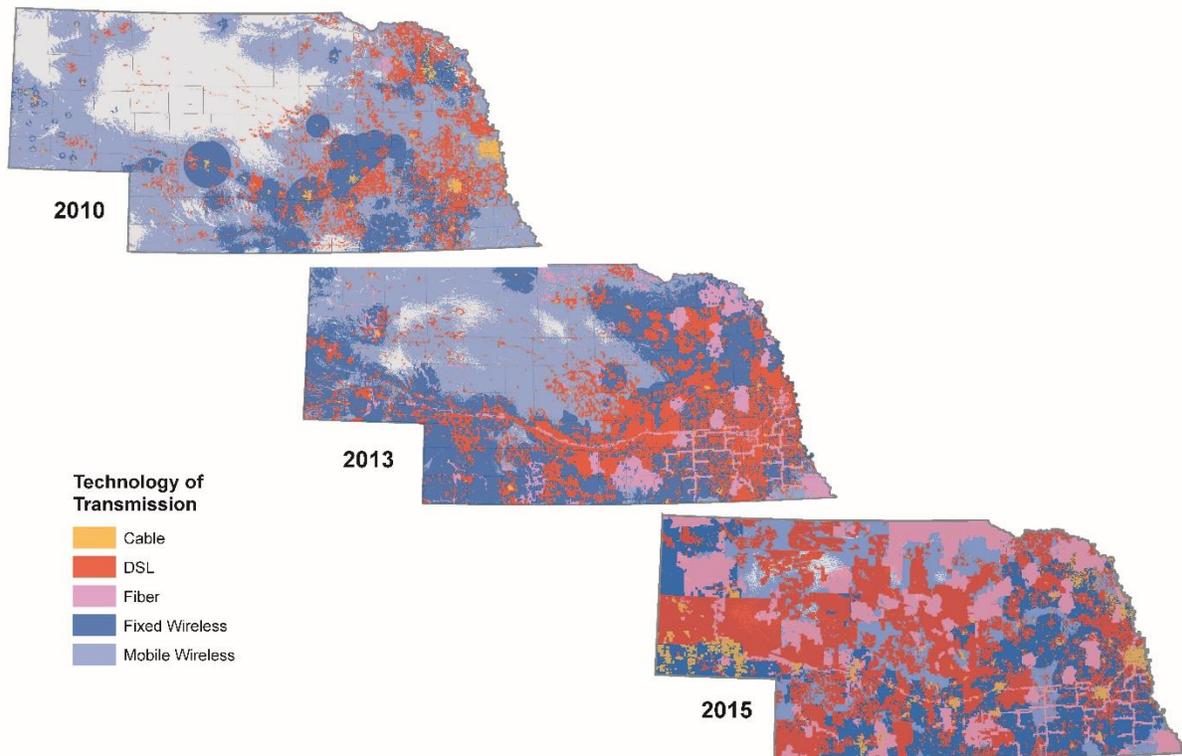
<b>2</b>	<b>Complete transition to Security Mentor Security Awareness videos for all State employees.</b>		
2.1	Security Awareness videos will be delivered to all State employees through the Learning Management System on a semi-monthly basis.	Completed	
2.2	Emails that re-inforce the video will be sent to all State employees on the off months.	Completed	
<b>3</b>	<b>Perform a complete IT hardware inventory of all State agencies.</b>		
3.1	Itemized list of IT-related hardware used within the State of Nebraska network	In progress	
<b>4</b>	<b>Perform a complete IT application inventory of all State agencies.</b>		
4.1	Itemized list of applications used within the State of Nebraska network	In progress	
<b>5</b>	<b>Complete Nebraska Security Operation Center.</b>		
5.1	Enterprise Security Information and Event Management (SIEM) system	In progress	
5.2	Enterprise Security Operations Centers in multiple locations 24 x 7 for redundancy	Not started	
5.3	Service Level Agreements with all participants	Not started	
5.4	Written Charter	Not started	
<b>6</b>	<b>Complete update of NITC Standards and guidelines according to gap analysis</b>		
6.1	Updated NITC 8-101 Information Security Policy	In progress	Under review by the Security Architecture Workgroup.
6.2	Updated NITC 8-102 Data Security Standard	Not started	
6.3	Updated NITC 8-103 Minimum Server Configuration Standard	Not started	
6.4	Updated NITC 8-201 Information Technology Disaster Recovery Plan	Not started	
6.5	Updated NITC 8-301 Password Standard	Not started	
6.6	Updated NITC 8-303 Remote Access Standard	Not started	
6.7	Updated 8-304 Remote Administration of Internal Devices Standard	Not started	

Attachment 5-b

June 27, 2016

**To:** NITC Commissioners  
**From:** Anne Byers  
**Subject:** Community Council Report

**Updated Broadband Map.** The Nebraska Public Service Commission (PSC) with assistance from the Office of the CIO has updated the broadband mapping website ([broadbandmap.nebraska.gov](http://broadbandmap.nebraska.gov)). The map below shows the rapid deployment of broadband technologies between 2010 and 2015. The increased deployment of fiber-based broadband is particularly noteworthy.



**Nebraska Broadband Today Conference.** Approximately 160 community leaders, resource providers, and telecommunications providers attended the Nebraska Broadband Today conference on May 24 at the Cornhusker Marriott in Lincoln. The conference was sponsored by the Nebraska Telecommunications Association in partnership with the Nebraska Broadband Initiative. Scholarships for community members were provided by the University of Nebraska Rural Futures Institute

Highlights included a welcome from State of Nebraska CIO Ed Toner and a keynote presentation from Rural Futures Institute Executive Director Chuck Schroeder.

A panel on broadband and sports was a fan favorite with Kelly Mosier discussing the importance of social media in promoting Husker athletics. Taylor Siebert shared how Striv.TV, based in Henderson, Nebraska is helping schools share their stories through live video streaming. Hunter Radenslaben, a high school

student in Waverly, is building a business based off his popular Twitter account, @AthleteNation.

Other sessions highlighted the use of broadband in agriculture, understanding broadband technologies and policies, technology jobs and training opportunities, and putting your business on the map with an online presence.

**Nebraska Rural Poll Report on Broadband.** The University of Nebraska-Lincoln's Nebraska Rural Poll included several questions on broadband. A summary is included in the meeting materials. The complete report is available at <http://ruralpoll.unl.edu/pdf/16broadband.pdf>.

**Meeting with Ponca Technology Committee.** On June 23, Tom Rolfes and Anne Byers from the NITC along with Gene Hand, Cullen Robbins, and Jeff Pursley from the Public Service Commission traveled to Ponca, Nebraska to meet with members of the Ponca technology committee. Representatives of Great Plains Communications also attended. Committee members and representatives of Great Plains discussed issues with broadband service in Ponca and began working on steps to resolve those issues.

**Nebraska Broadband Today Newsletter.** The NITC Community Council has started publishing a bimonthly newsletter to share broadband success stories and resources. We currently have about 50 subscribers and received about 200 clicks on the newsletter. A copy of the first issue is included in the meeting materials. The May/June issue is also available at <http://goo.gl/Vt921N>.

**Social Media Campaign.** The Community Council started a social media campaign to share broadband success stories and resources in April. The Community Council Twitter account has earned 2,000-9,000 impressions (the number of times users saw the tweet on Twitter) per month. Please follow us:

**Twitter:** @NITCcommunity1

**Facebook:** <https://www.facebook.com/NITCcommunity/>

# Nebraska Rural Poll:

## Broadband and Mobile Internet Services in Nonmetropolitan Nebraska

Eighty-two percent of rural Nebraskans subscribe to broadband at home, and 70 percent of rural Nebraskans access the Internet using their cell phones according to a [new report](#) by the Institute of Agriculture and Natural Resources at the University of Nebraska Lincoln. The 2016 Nebraska Rural Poll details 1,746 responses to the 2016 Nebraska Rural Poll, the 21<sup>st</sup> annual effort to understand rural Nebraskans' perceptions. Respondents were asked a series of questions about Internet services. Comparisons are made among different respondent subgroups, that is, comparisons by age, occupation, region, etc.

Based on these analyses, some key findings emerged:

- Most rural Nebraskans use their cell phone to access the Internet. Seventy percent of rural Nebraskans access the Internet using their cell phones. Rural Nebraskans with the highest household incomes, who are younger, married, with higher education levels and with management or professional occupations are the groups most likely to access the Internet using their cell phone.
- Overall, most rural Nebraskans using mobile/cellular Internet service are satisfied with their service. Furthermore, most rural Nebraskans are satisfied with the reliability, speed, customer service, and coverage of their mobile Internet service. However, most rural Nebraskans using mobile Internet service are dissatisfied with the price of their service.
- Persons with healthcare support or public safety occupations are more likely than persons with different occupations to report being satisfied with the reliability of their mobile Internet service. Seventy percent of persons with healthcare support or public safety occupations are satisfied with the reliability of their mobile Internet service. However, only 39 percent of persons with occupations in agriculture are satisfied with the reliability of their mobile Internet service. In fact, over one-half (52%) of persons with occupations in agriculture are dissatisfied with the reliability of their mobile Internet service.
- Persons living in or near the largest communities are more likely than persons living in or near the smallest communities to report satisfaction with the speed of their mobile Internet service. Approximately two-thirds (67%) of persons living in or near communities with populations of 10,000 or more are satisfied with the speed of their mobile Internet service, compared to 43 percent of persons living in or near communities with less than 500 people.
- Persons living in the South Central region are more likely than persons living in other regions of the state to be satisfied with the coverage of their mobile Internet service. Seventy-three percent of persons living in the South Central region are satisfied with the coverage of their mobile Internet service, compared to 55 percent of persons living in the Northeast region of the state.

**70%**

of rural Nebraskans  
access the Internet  
using their cell phones

**Most**

rural Nebraskans  
are satisfied

with their home broadband  
and mobile internet service

**52%**

of rural Nebraskans  
involved in agriculture  
are dissatisfied  
with the reliability  
of mobile internet service

- Over eight in ten rural Nebraskans subscribe to a high-speed Internet service at home (such as cable Internet, DSL, fiber optic or satellite Internet service) other than a data plan on their cell phone or tablet. Eighty-two percent of rural Nebraskans report subscribing to high-speed Internet service at home. Six percent say they only use their cell phone data plan. Nine percent do not subscribe to any Internet service at home and do not have a cell phone data plan. Two percent have only dial-up Internet service.

**82%**  
of rural Nebraskans  
subscribe to broadband

- Rural Nebraskans living in or near larger communities, with higher household incomes, who are younger, who are married, with higher education levels and with occupations classified as other are the groups most likely to subscribe to high-speed Internet services at home.

**9%**  
of rural Nebraskans  
do not subscribe  
to any internet service

- Most rural Nebraskans with home Internet service are satisfied with their service overall. Furthermore, most rural Nebraskans with home Internet service are satisfied with the reliability, speed and customer service of their home service. However, most rural Nebraskans with home Internet service are dissatisfied with the price of their service.
- Persons living in or near larger communities are more likely than persons living in or near smaller communities to report satisfaction with the speed of their home Internet service. Sixty-three percent of persons living in or near communities with populations of 10,000 or more are satisfied with the speed of their service, compared to 44 percent of persons living in or near communities with populations less than 500.
- Panhandle residents are more likely than residents of other regions of the state to be satisfied overall with their home Internet service. Just over two-thirds (68%) of Panhandle residents are satisfied overall with their home service, compared to 51 percent of residents of the Northeast region.
- Most rural Nebraskans see value in having high-speed Internet access for various items. Over seven in ten rural Nebraskans feel having high-speed Internet access is important or very important for the following items: searching for/applying for jobs, children's education and learning new things.
- Younger persons are more likely than older persons to think having high-speed Internet access is important for monitoring or managing health care. Just over one-half (55%) of persons age 19 to 29 think high-speed Internet access is important for monitoring or managing health care, compared to 36 percent of persons age 65 and older.

High-speed internet  
is important for:  
**job searches**  
**children's**  
**education**  
learning new things

The report is available at <http://ruralpoll.unl.edu/pdf/16broadband.pdf>.

May/June 2016

# Nebraska Broadband

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## Partnership leads to improvement in Lincoln City Libraries bandwidth

1 Through a unique partnership between Lincoln City Libraries, NebraskaLink, Lincoln Public Schools (LPS), Network Nebraska, and the Nebraska Public Service Commission, Lincoln City Libraries has increased its Internet capacity from 20 megabits per second (Mbps) to 1 gigabit per second (Gbps)—which is 50 times the current bandwidth. The project will benefit Lincoln Public Schools students who need Internet access to do their homework and other patrons accessing the Internet.

2

3

4

5

6 The project was made possible through a \$334,000 grant from the Nebraska Universal Service Fund administered by the Nebraska Public Service Commission. The grant funds were used to build connections from all eight library locations to Network Nebraska, the state network serving K-20 educational entities. The only cost to Lincoln City Libraries was upgrading its own equipment. Through an Indefeasible

7 Right to Use agreement, Lincoln City Libraries will not pay for the use of the fiber for 20 years. Due to its aggregated purchasing power and low administrative costs, Network Nebraska is providing up to 1 Gbps of Internet at a price similar to what Lincoln City Libraries currently pays for 18 megabits. The project may act as a model for other libraries in Nebraska that need better broadband access.

8



Two young library patrons use a computer to access the Internet at the Walt Branch Library. Through a unique partnership, Internet capacity at Lincoln City Libraries has increased from 20 megabits per second to 1 gigabit per second.

“The Nebraska Public Service Commission is

# Nebraska Broadband

pleased that the Lincoln Libraries made use of these grant funds in this manner and we appreciate the support of NebraskaLink in carrying out the construction of this project," said Frank Landis, Nebraska Public Service Commissioner. "We applaud the Lincoln Libraries and NebraskaLink for stepping forward to expand broadband access in Lincoln."

Several libraries are sited in areas with some of the lowest per capita incomes in Lincoln. Particularly at Bennet Martin Library, Williams Library, and Eiseley Library, better broadband means that the people who depend on the library for their most consistent Internet access will have strong access.

The project also supports Lincoln Public Schools' initiative to provide tablets to students.

"For low-income families with school-age children who do not have a broadband connection at home, the access provided by the Lincoln Library Network may be the only source of broadband Internet access available to the student," Leach said.

Lincoln Public Schools began supplying sixth-grade students with tablets in the 2015-2016 school year and will eventually provide devices for students from third through 12th grades. Through an arrangement with Lincoln Public Schools, students will have a direct connection to their school network as soon as they enter a Lincoln City Libraries facility.

"The Libraries' plan to increase access to global information is critical for our students, who will use this infrastructure to support their learning that, increasingly, requires access to digital content," said Kirk Langer, Chief Technology Officer for Lincoln Public Schools. "This timely community partnership means LPS students can use the safe learning environment of the Lincoln City Libraries outside the school day. They will now have the type of network access necessary to support the devices LPS provides for students from third through twelfth grade."

"This project strengthens Lincoln City Libraries' vitality by providing top-notch Internet services," said Leach. "The benefits to individuals include student curriculum access, faster information, streamlined internal processes, and the connection to the world that can be had only through the Internet. The whole community benefits when public libraries stand as strong, relevant places that uphold the value we place on education."

## Do Space supports learning and doing

By Anne Byers, NITC

With a spacious computer lab, free classes, meeting rooms, hangouts for children and teen agers, and a small maker space, Omaha's Do Space is a space for everyone.

The Do Space provides access to technology and training to 500 visitors a day. Memberships and classes are free. Approximately 30,000 individuals have already signed up for memberships. Users range from technology novices to technology entrepreneurs. With over 200 volunteers and spaces designed to encourage collaboration, the Do Space is as much about building community as it is about utilizing technology.

In April, members of the Nebraska Information Technology Commission's Education and Community Councils were able to tour the Do Space and Metropolitan Community College's learning space on the second floor.

The maker space, with its 3D printers, laser cutter, and vinyl cutter, provides a place for entrepreneurs to create prototypes or for budding engineers to experiment with 3D printing.

The upstairs space, occupied by Metropolitan Community College, has classrooms as well as seating areas for studying, working, or collaborating. A certified testing lab is available for students wishing to take certification tests. The facility averages approximately 100 users per day. A high-tech lab is also under development.

Before leaving, I signed up for my Do Space membership. Now I just need to sign up for a class on 3D printing.

More information is available at [www.dospace.org](http://www.dospace.org).



**Do Space Volunteer Coordinator Cherie Gossett shows examples of 3D printed objects to members of the NITC Education and Community Councils.**

# Nebraska Broadband

## Projects recognized for advancing broadband in Nebraska

The Nebraska Broadband Initiative recognized three outstanding broadband projects at the Rural Futures Institute pre-conference on Oct. 21, 2015:

- Rural Nebraska Healthcare Network Broadband Fiber Network (Outstanding Infrastructure Project)
- Interface: The Web School (Outstanding Digital Literacy Project)
- Nebraska 4-H Robotics FIRST Lego League (FFL) (Outstanding Youth Project)

**The Rural Nebraska Healthcare Network Broadband Fiber Network.** The Rural Nebraska Healthcare Network (RNHN), a non-profit healthcare network with nine member hospitals in the Nebraska Panhandle, built a broadband fiber network in 2012 with funding from the Federal Communications Commission's Rural Health Care Pilot Program. The 36-fiber redundant ring network in western Nebraska connects 10 hospitals, with leased circuits connecting an additional 13 hospitals in central/eastern Nebraska. The network has long-haul circuits to Omaha and Denver.



Nebraska Public Service Commissioner Jerry Vap presents the award for outstanding infrastructure project to Bonni Carrell, representing the Rural Nebraska Health Care Network Broadband Fiber Network.

The network is connected to the Nebraska Statewide Telehealth Network and has direct access to radiologists, laboratories, clinical pharmacists, and other specialists nationwide. Participating facilities transmit medical records, data, patient files, radiology, billing and other important patient and business-related information.

RNHN initially partnered with Mobius Communications in Hemingford. Mobius Communications brought the FCC funding opportunity to RNHN's attention and assisted with the application process. Construction of the RNHN fiber network was made possible through a unique partnership with Zayo, a broadband provider. RNHN installed 84 fibers

and leased 48 of them on a long-term basis to Zayo. The money that RNHN received from Zayo for the lease was sufficient to cover the RNHN's portion of network construction costs. The Zayo 48-fiber commercial component has been developed by several Panhandle communication providers.

The 2 Gigabits per second redundant backbone allows images to be sent in real-time and the transfer of files in seconds or minutes, allowing easier access to patient records and information and supporting greater use of telemedicine and telehealth. The backbone capacity, which can be expanded as needed, is allowing member hospitals to provide off-site backup and disaster recovery services to each other.

RNHN members include Box Butte General Hospital, Chadron Community Hospital, Gordon Memorial Hospital, Kimball Health Services, Morrill County Community Hospital, Perkins County Health Services, Regional West Garden County, Regional West Health Services, and Sidney Regional Medical Center.

**Interface: The Web School** works to provide opportunities to learn code to everyone who wants to learn to do so. According to the Nebraska Department of Labor, there are currently over 4,000 unfilled tech jobs in the state of Nebraska alone. Interface: The Web School is addressing the need for a skilled IT workforce by providing introductory web development workshops to youth and adults as well as intensive web development training for those looking to enhance their skills and/or change careers.



Shonna Dorsey accepts Interface: The Web School's award for outstanding digital literacy project.

Over 50 youth ages 6 to 12 have participated in web development workshops through Interface. The partnership with AIM, FUSE Coworking, and Omaha Public Library provided an opportunity to reach young girls, currently underrepresented in tech, to web development, one area of the tech

# Nebraska Broadband

field. Additionally, by offering these workshops at no/low cost to families and providing laptops for those who needed them, girls from all over the community were able to take advantage of this opportunity. One youth participant started a business inspired by the site she created.

Additionally over 100 adults have participated in Interface's web development workshops. Following these sessions, adult participants report feeling more confident about working with code and find that some of what they learn in the free sessions can be immediately applied to their day-to-day tasks such as sending e-mail newsletters.

Over 100 adults have participated in Interface's 11- to 15-week intensive web developer training courses. Students have gone from positions such as social worker and barista to technology specialist and junior web developer. In partnership with First National Bank, Interface ran a 10-week web developer training course during the fall of 2014 where four non-technical First National employees and eight external applicants were selected to participate in training with all tuition paid and full-time pay during the course. Through this program, First National transitioned the four employees into technical roles and hired one of the external candidates, who had been a full-time stay-at-home mom for 12 years prior to the course, as a developer at \$55,000 per year. Another one of the external candidates was a barista before joining the course. Following the 10-week course, she landed a position with an agricultural technology company and is now a junior web developer. She has more than doubled her income in under one year and has moved her family out of her parents' home.

**Nebraska 4-H Robotics FIRST Lego League (FLL).** To meet the need for more engineers and other STEM (Science, Technology, Engineering, and Mathematics) leaders, Nebraska 4-H Extension and our community partners have provided youth the opportunity to compete in the FIRST LEGO League (FLL) educational robotics competition program across Nebraska.

In 2015 Nebraska 4-H Extension hosted competitions for more than 100 FLL teams (about 714 youth) in six qualifying events in communities across the state (Omaha, Bellevue, Sidney, Kearney, Nebraska City, and South Sioux City) and one 48-team state championship hosted at the Nebraska Air and Space Museum in Ashland, Nebraska. Youth that participate in these robotics competitions build and program robots to accomplish specific tasks, communicate their engineering design processes, and complete a

related research project.

Through their participation in the FLL competition, youth display increased interest in and understanding of science and technology, and the engineering design process.

Through FLL participants are exposed to a wide array of different career professions.

Nearly every team meets with STEM-career professionals and researches various STEM careers as part of FLL.

FLL program develops participants as leaders who support innovation. The program promotes innovation through the Core Value "What we discover is more important than what we win," and by evaluating innovative project solutions and robot designs. Youth in FLL believe leadership is important, report high levels of leadership capacity, and perceive improvement in leadership capacity as a result of participating. With their high levels of engagement and interest in STEM, educational robotics program participants are in the STEM pipeline and are likely to build their self-efficacy in STEM, work harder as they expect achievement, and experience additional success as they continue in STEM.



**Bradley Barker accepts Nebraska 4-H Robotics FIRST Lego League's award for outstanding youth project.**

## **\$2.7 million grant advances health information exchange in Nebraska**

The Nebraska Information Technology Commission (NITC) received over \$2.7 million in funding on July 27, 2015 from the U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology. The grant supports greater adoption of health information exchange and to help health care facilities integrate health information technology into their workflow.

The NITC is partnering with the Nebraska Health Information Initiative (NeHII) and the University of Nebraska Medical Center (UNMC) on the grant. NeHII is one of the largest health information exchanges (HIEs) in the country with data on over 3 million individuals and over 5,000 us-

# Nebraska Broadband

ers. This two-year grant builds upon NeHII's successful track record by adding additional Critical Access Hospitals, long-term care facilities, and other providers to NeHII; increasing utilization by providing additional value-added functionality and workflow integration training; and increasing interoperability and integration with a focus on public health and research.



**Project team members met with Zoe Barber, ONC project officer, and Nance Shatzkin, Bronx RHIO CEO, on Jan. 27, 2016. Pictured from left to right: Vicki Kennel, Don Klepser, Zoe Barber, Jessica Gilson, Anne Byers, Gary Cochran, Rachel Houseman, Lianne Stevens, Marsha Morien, Deb Bass, Nance Shatzkin, Nathan Bills, and Roger Van Epps.**

UNMC will provide assistance in workflow integration to facilities in Auburn and O'Neill. Initial use cases for health information are being currently being identified. Lessons learned will be shared through use case-based training modules.

The grant project is employing a multi-faceted approach to increase adoption of health information exchange technologies and to increase utilization. Grant activities include:

- Implementing 18 Critical Access Hospitals and labs for exchange with NeHII;
- Implementing five ambulatory clinics for exchange with NeHII;
- Implementing Direct secure messaging for 50 long-term care and other facilities;
- Implementing a gateway with five HIEs to enable the exchange of exchange of data across HIEs;
- Implementing Admission Discharge and Transfer (ADT) alerting via mobile messaging for 40 providers;
- Connecting eight Critical Access Hospitals to the State's syndromic surveillance system through NeHII;

- Implementing population health analytics for five facilities;
- Providing assistance in workflow analysis and integration to facilities participating in integrated communities;
- Developing six use-case based training modules; and
- Developing two demonstration projects which integrate HIE data for comparative effectiveness research.

## Association focuses on tech talent

An advisory council of high-level Information Technology (IT) business executives formed by the Nebraska Department of Economic Development (DED) two years ago has now branched off and incorporated as the non-profit Technology Association of Nebraska (TAN).

"We were pleased to play a large role in this group's formation as it related to initial recommendations made by the Battelle Study," said Courtney Dentlinger, DED Director. "It is equally gratifying to see this group now grow beyond the limits of what they could achieve with our help alone. Having spoken with many company officials statewide, the evidence supports a critical need for workers trained and skilled in information technology if all of our industries are to grow and flourish."

The group's goal is to focus on technology workforce issues that impact businesses across all industries and raise the overall visibility and viability of the industry.

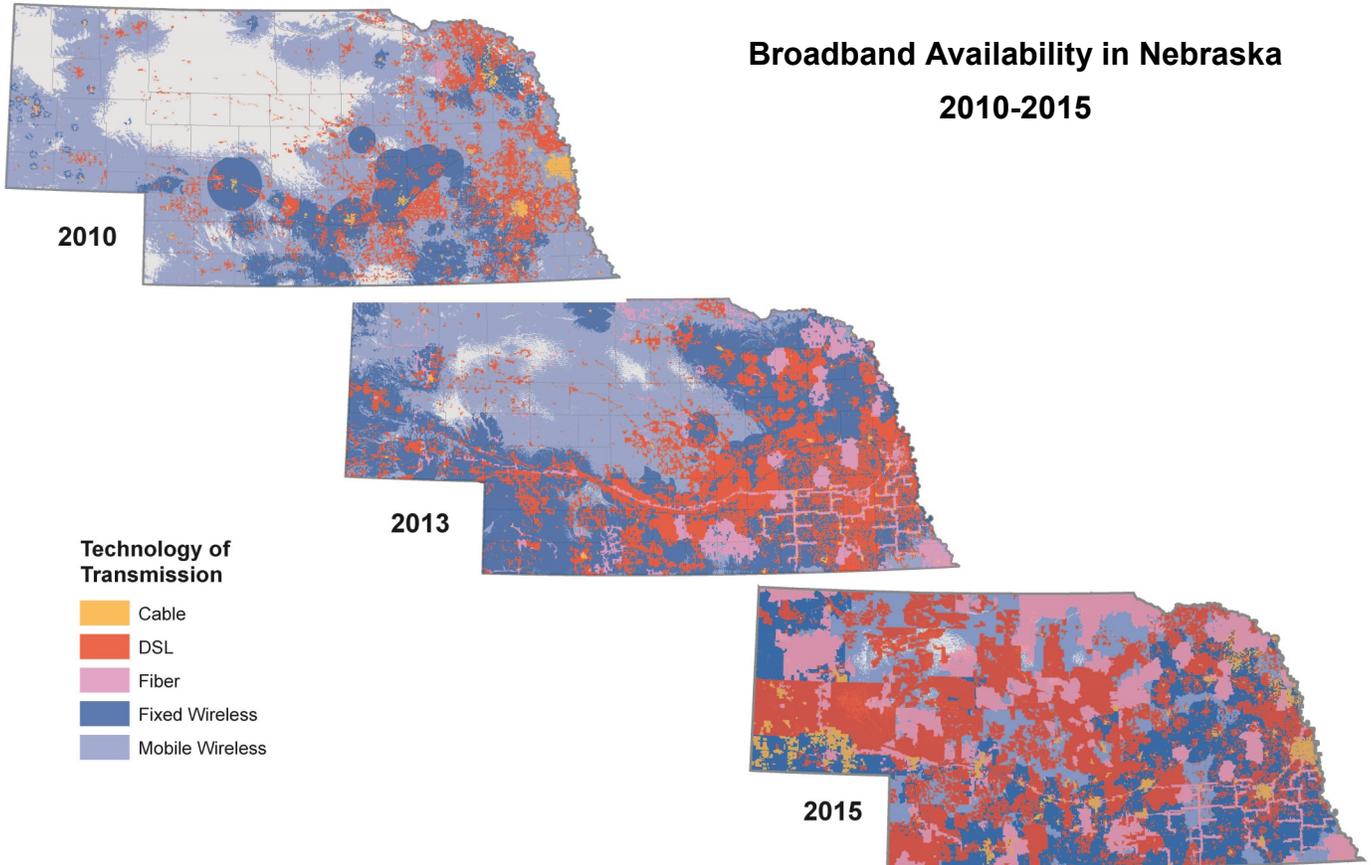
The TAN Board of Directors hired Stan Pierce to be its executive director. Pierce, a 33-year veteran of the tech industry, was most recently a senior vice president at Fiserv, overseeing all production software engineering departments of the company's Bank Solutions business.

For more information, visit [www.nebraskatech.org](http://www.nebraskatech.org).

## NITC welcomes new commissioners

Governor Ricketts has appointed Shane Greckel, owner/operator of Greckel Farms, LLC, and Daniel Spray, president of Precision Technology, Inc. as Nebraska Information Technology Commissioners. Welcome, Commissioners Greckel and Spray.

# Nebraska Broadband



## Updated map shows improvements in broadband availability in Nebraska

The Nebraska Public Service Commission (PSC) has updated the broadband mapping website ([broadbandmap.nebraska.gov](http://broadbandmap.nebraska.gov)). The map above highlights the rapid deployment of broadband technologies between 2010 and 2015. The increased deployment of fiber-based broadband is particularly noteworthy.

The website allows users to look up provider information for a variety of geographic locations, from as granular as a point or address to an area as large as a county or region. New features include aerial imagery to allow for better visualization of locations, the ability to view Incumbent Local Exchange Carrier boundaries, and updated speed information. The updated website is also mobile-friendly.

From 2010 to 2014, the PSC collected broadband deployment

information directly from carriers. This information detailed where, and at what speeds, broadband was being provided. The PSC used this information to support their broadband mapping website. Beginning in 2015, the Federal Communications Commission (FCC) assumed responsibility for collecting the broadband deployment data through its Form 477 data collection, with promises to eventually release the data for public consumption. Because of the heretofore irregular release of that information, the PSC has once again requested the data directly from providers starting with the March 2016 collection cycle. That data was used to update the broadband map, and coincident with that data collection, the design of the map itself was also updated. Data collection directly by the PSC has allowed for broadband deployment to be tracked over time, as well.

# Nebraska Broadband

## State education network decreases cost by aggregating demand

Network Nebraska-Education connects nearly every K-12 school district, educational service unit, and public college, enabling distance education and providing Internet access. By aggregating demand, Network Nebraska-Education has reduced costs for participating schools.

The unit cost for Internet access to Nebraska schools and colleges has decreased by 99% over eight years due to the aggregation of demand, competitive bidding, and market forces. Nebraska schools and colleges responded by increasing their purchase of Internet many times over the same time period to enhance the on-campus learning environments.

Network Nebraska-Education has established five major backbone aggregation points across the state where telecommunications providers can co-locate their equipment for greater access to educational customers.

Because the State of Nebraska leases these facilities, investments in infrastructure made by telecommunications companies can also benefit other customers.

## Nebraska conference connects providers and communities

Approximately 160 community leaders, resource providers, and telecommunications providers attended the Nebraska Broadband Today conference on May 24 at the Cornhusker Marriott in Lincoln. The conference was sponsored by the Nebraska Telecommunications Association in partnership with the Nebraska Broadband Initiative.

Highlights included a welcome from State of Nebraska CIO Ed Toner and a keynote presentation from Rural Futures Institute Executive Director Chuck Schroeder.

A panel on broadband and sports was a fan favorite with Kelly Mosier discussing the importance of social media in promoting Husker athletics. Taylor Siebert shared how Striv.TV, based in Henderson, Nebraska is helping schools share their stories through live video streaming. Hunter Radenslaben, a high school student in Waverly, is building a business based off his popular Twitter account, @AthleteNation.

Other sessions highlighted the use of broadband in agricul-

ture, understanding broadband technologies and policies, technology jobs and training opportunities, and putting your business on the map with an online presence.

## Project brings fiber to Lindsay

Darci Lindgren, Technology Coordinator for Lindsay Holy Family, met with Brandon Schmidt, Account Executive for NebraskaLink, at the Nebraska Broadband Today Conference in Lincoln on Tuesday, May 24. There they were able to put the finishing touches on the summer 2016 fiber optic installation plans. With the help of Klint Arnold from Mid-states Data Transport of Pierce, Nebraska, fiber optic cable will be laid to the private school. The new connection will allow greater flexibility for Network Nebraska distance learning and digital field trip events, as well as student and teacher access to digital tools. After comparing the NebraskaLink bid to two other providers that were almost three times higher for similar services, principal Andy Bishop and the Holy Family Finance Committee decided to move forward with the upgrade on May 19. Contributions from grants and federal E-rate funds make this project possible. Holy Family upgraded their entire internal wireless network last summer (including fiber between their two buildings) with the help of Heartland Communications from David City using Category 2 E-rate funds, so the internal network is ready to maximize the increased bandwidth made possible with fiber optic data transport. The school will no longer be limited to outdated copper connection speeds. Other Lindsay area businesses could benefit from this fiber build if requested.

## Nebraska selected to participate in IMLS grant to aid rural libraries

The State of Nebraska was recently selected by Internet2 as one of five states to take part in a grant to assist rural and tribal libraries in achieving faster broadband. Nebraska was chosen because of its high percentage of small (96.3%) and rural (76.9%) public libraries, as defined by the Institute of Museum and Library Sciences (IMLS). The four other participating states include Alaska, Kansas, Oklahoma, and Washington.

The grant will produce a broadband toolkit and technology self-assessment that can be used by rural and tribal libraries to improve the speed of internal and external Internet

# Nebraska Broadband

connections.

Nebraska's role will be to pilot the toolkit over the next 12 months with at least six rural libraries that meet a set of selection criteria. The staff responsible for the grant activities are Holly Woldt, Nebraska Library Commission, and Tom Rolfes, State of Nebraska--Office of the CIO. Holly and Tom flew to Chicago on May 19 to participate in a grant planning workshop.

## New labels will help consumers understand broadband plans

The Federal Communications Commission announced new broadband labels to provide consumers of mobile and fixed broadband Internet service with easy-to-understand information about price and performance on April 4, 2016. These labels should help consumers make informed decisions about the purchase of broadband service.

The consumer broadband labels will provide consumers with more information on service speed and reliability and greater clarity regarding the costs of broadband service, including fees and other add-on charges that may appear on their bills. The FCC's Open Internet transparency rules require broadband Internet access service providers to disclose this information to consumers in an accurate, understandable and easy-to-find manner. These formats, while not mandated by the agency, are recommended by the Commission and will serve as a "safe harbor" to meet those requirements.

## Library makerspaces grow in Nebraska

The Nebraska Library Commission surveyed libraries in Nebraska earlier this year on their maker space capabilities. Thirty-seven out of 150 respondents, indicated that they have a makerspace in their library. Of the 37 respondents with makerspaces, 14 reported having a permanent spot for a makerspace with the remaining 23 having a temporary space such as a meeting or conference room. Arts and crafts and legos were the most popular makerspace items. Fewer than five libraries reported having a 3D printer.

A number of libraries without makerspaces indicated interest in having a makerspace in their library, with 11 indicating an interest in 3D printing, computer app creation, and robotics equipment. Twelve libraries indicated an interest in computer programming equipment.

## 2016 Legislative session addresses 911, prescription drug monitoring

Several laws relating to telecommunications and health information exchange were passed by the legislature and signed by Governor Ricketts during the past session, including:

- LB 471 (Sen. Howard) Change provisions relating to prescription drug monitoring.
- LB 938 Smith Adopt the 911 Service System Act and transfer funds from the Enhanced Wireless 911 Fund to the 911 Service System Fund

Additionally, the Transportation and Telecommunications Committee will be conducting an interim study (LR 538) to examine telecommunications services in Nebraska.

## NITC Community Council uses social media to share broadband successes

The NITC Community Council is undertaking a social media campaign including Twitter and Facebook accounts to share broadband development success stories and resources.

Twitter: @NITCcommunity1

Facebook: <https://www.facebook.com/NITCcommunity/>

Broadband Nebraska is produced by the NITC Community Council in partnership with the Nebraska Broadband Initiative. To subscribe go to: <http://nitc.ne.gov/news/community/index.html>

The **Nebraska Information Technology Commission (NITC) Community Council** ([nitc.ne.gov](http://nitc.ne.gov)) promotes the adoption and utilization of broadband technologies in Nebraska and provides recommendations to the NITC.

Twitter: @NITCcommunity1

Facebook: <https://www.facebook.com/NITCcommunity/>



The **Nebraska Broadband Initiative**

([broadband.nebraska.gov](http://broadband.nebraska.gov)) promotes the adoption and utilization of broadband in Nebraska. Project partners

include the Nebraska Public Service Commission, University of Nebraska-Lincoln, Nebraska Information Technology Commission, Nebraska Department of Economic Development, and AIM.



<b>NITC Strategic Initiatives Status Report</b>			
<b>Strategic Initiative, Action Item and Deliverable/Target</b>			
<b>Community IT Development</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Support the efforts of communities to address broadband-related development by recognizing outstanding programs and developing a series of best practices and case studies.</b>		
1.1	First Nebraska Community Broadband Awards awarded Oct. 21, 2015	Completed	First Community Broadband Awards awarded Oct. 21, 2015
1.2	At least 6 best practices/case studies developed by Oct. 2016	In progress	Community Broadband Award winners (Rural Nebraska Health Care Network Broadband Fiber Project, Interface: The Web School, and Nebraska 4-H Robotics FIRST Lego League) were profiled. The NebraskaLink-PSC-Lincoln City Libraries project was also profiled. The Community Council is trying to get the word out through a newsletter and social media.
<b>2</b>	<b>Support the Network Nebraska Advisory Group's efforts serve as a communication hub for new and existing Network Nebraska participants.</b>		
2.1	Develop and implement a communications strategy	In progress	A recent grant from the Institute of Museum and Library Sciences to Internet 2 will support efforts to bring libraries onto Network Nebraska.  Community and Education Councils are scheduled to meet on March 31. Several members will attend both meetings to discuss the joint action items.
<b>3</b>	<b>Support the Education Council's efforts to expand awareness and address the need for equity of access as it relates to digital education.</b>		
3.1	Work with other stakeholders to find equitable Internet solutions	In progress	Community and Education Councils are scheduled to meet on March 31. Several members will attend both meetings to discuss the joint action items.

## Attachment 5-c

June 27 2016

**To:** NITC Commissioners  
**From:** Anne Byers  
**Subject:** eHealth Council Report

### **Advance Interoperable Health IT Services to Support Health Information Exchange Cooperative Agreement**

**Project Overview.** The Nebraska Information Technology Commission (NITC) received approximately \$2.7 million in funding on July 27, 2015 from the U.S. Department of Health and Human Services Office of the National Coordinator for Health Information Technology. The grant supports greater adoption of health information exchange and to help health care facilities integrate health information technology into their workflow.

The NITC is partnering with the Nebraska Health Information Initiative (NeHII) and the University of Nebraska Medical Center (UNMC) on the grant. NeHII is one of the largest health information exchanges (HIEs) in the country with data on over 3 million individuals and over 6,000 users. This two-year grant builds upon NeHII's successful track record by adding additional Critical Access Hospitals, long-term care facilities, and other providers to NeHII; increasing utilization by providing additional value-added functionality and workflow integration training; and increasing interoperability and integration with a focus on public health and research.

UNMC will provide assistance in workflow integration to facilities in two Nebraska communities. Initial use cases for health information are being currently being identified. Lessons learned will be shared through use case-based training modules.

The grant project is employing a multi-faceted approach to increase adoption of health information exchange technologies and to increase utilization. Grant activities include:

- Implementing 18 Critical Access Hospitals and labs for exchange with NeHII;
- Implementing five ambulatory clinics for exchange with NeHII;
- Implementing Direct secure messaging for 50 long-term care and other facilities;
- Implementing a gateway with five HIEs to enable the exchange of exchange of data across HIEs;
- Implementing Admission Discharge and Transfer (ADT) alerting via mobile messaging for 40 providers;
- Connecting eight Critical Access Hospitals to the State's syndromic surveillance system through NeHII;
- Implementing population health analytics for five facilities;
- Providing assistance in workflow analysis and integration to facilities participating in integrated communities;
- Developing six use-case based training modules; and
- Developing two demonstration projects which integrate HIE data for comparative effectiveness research.

**Implementation Update.** Overall, implementation is going well, but there have been some delays. Although we have experienced delays due to NeHII's migration to the new HIE 2.0 platform, delays and roadblocks in working with Critical Access Hospitals (very small rural hospitals) and their electronic health record (EHR) vendors have been a bigger issue. Some Critical Access Hospitals are finding that their EHR vendors are charging exorbitant interface fees. One Critical Access Hospital has decided to implement a new EHR system and can't begin implementation with NeHII until after the grant period. A couple have had new CEOs come on board who are now rethinking the decision to participate. NeHII has been documenting these challenges and has shared them with ONC. Other states are also experiencing similar challenges. As a plan B, NeHII will be contacting Federally Qualified Health Centers to see if they are interested in participating. ONC is on board with including Federally Qualified Health Centers. The table on the following page details our progress in meeting our milestones.

**Integrated Community Project.** The Integrated Community Project involves working with healthcare providers in two Nebraska communities to integrate health IT into their workflow. The process starts by asking health care providers what information they would like to receive, determining technical capabilities to exchange information, and prioritizing use cases. Several weeks ago team members met with the clinic and hospital in one of the communities. Both were interested in lab results delivery. Both had the ability to send and receive patient care summaries through Direct secure messaging. When the clinic finally figured out who had access to the Direct secure messaging account and located the password, they found that they had 700 patient care summaries from the hospital unopened in the inbox. This led to further digging into what information was included in the patient care summaries and what information was needed. When a test patient care summary was printed, the document was over 50 pages long. Much of the information was lab data. NeHII will be working with the hospital and clinic on technical solutions for taking the information in the patient care summary and importing it into their electronic health record. This project is already yielding some valuable lessons learned.

Meetings were held in the second community on June 23 to begin identifying use cases.

Nebraska Advance Interoperable Health IT Services to Support Health Information Exchange  
 Facility Recruitment and Implementation Summary  
 June 28, 2016

Method of Health Information Exchange/Functionality	Facility/Provider Description	Target # of Facilities/Providers	# of Facilities/Providers Confirmed	# of Facilities in Progress	# of Facilities Implemented	Notes
Direct Secure Messaging	Long-term Care Facilities, public health department, home health	50	40	0	10	40 facilities recruited; 10 facilities implemented; 53 user accounts set up.
Sending data to NeHII using C-CDA (Consolidated-Clinical Document Architecture)	Clinics	5	5	0	0	Statements of Work have been requested from Optum to implement Grand Island Clinic, Think Whole Person Healthcare, and CHI Health TPN Clinics.
Sending data to NeHII using HL7 (standard for transfer of clinical data developed by Health Level Seven)	Critical Access Hospitals, Labs, and other	18	17	4	1	Physicians Lab is live. Auburn Family Health Center is scheduled to go live July 1. Community Memorial Hospital (Syracuse), CHI Health Nebraska Heart Institute Clinics, Antelope Memorial Hospital (Neligh) are in progress. Statements of work requested for 4 facilities..
Population Analytics	Health Systems	5	5	0	0	Scheduling Nebraska Medicine implementation
Sending data between NeHII and other Health Information Exchanges	Health Information Exchanges	5	6	0	0	This functionality will be available when NeHII migrates to a new platform.
ADT (Admission, Discharge and Transfer) alerts via mobile messaging	Health Care Providers, Payers	40	5	0	0	Recruitment for ADT alerts via mobile messaging is just starting.
Sending data to the state's syndromic surveillance system via NeHII	Critical Access Hospitals	8	6	1	1	Community Hospital (McCook) is live. NeHII is exploring a reduced pricing model for facilities implementing ADT and syndromic surveillance.
Integrated Communities— UNMC and NeHII will work with facilities in these communities on workflow integration	Communities including hospitals, long term care, clinics, and pharmacies	2 communities	2 communities	Facilities in 2 communities have begun identifying use cases.	0	

# NeHII Fact Sheet

June 17, 2016

- An on-site visit took place with Optum team members, Jennifer Pierce, Jerry Santelli and Tara Besack to address the HIE 2.0 platform migration functionalities and timeline and prioritize the pending 14 implementation projects that will begin after the black-out period which has ended.
- Rachel Houseman attended the American Society for Automation in Pharmacy (ASAP) Mid-Year Conference in Louisville, KY from June 16 -17. The gathering brings together representatives from the pharmacy industry, prescription drug monitoring programs (PDMPs), pharmacy software vendors and others interested in the increased use of technology in pharmacy settings.
- On June 16, Jed Hansen traveled to Auburn, NE to conduct in-take training session along with a Q & A session for 14 clinical staff members for Auburn Family Health Center as part of the ONC grant funding project. Auburn Family Health Center is planning a go-live date of July 1st.

## NeHII Application for Statewide HIE (Established March 2009)

- Facilitates exchange of clinical information via query and clinical messaging functionalities
- 501(c)(3) status received in November 2009
- Uses a HIPAA-compliant opt out platform
- [www.nehii.org](http://www.nehii.org) and [www.connectnebraska.net](http://www.connectnebraska.net)

## Participant Information

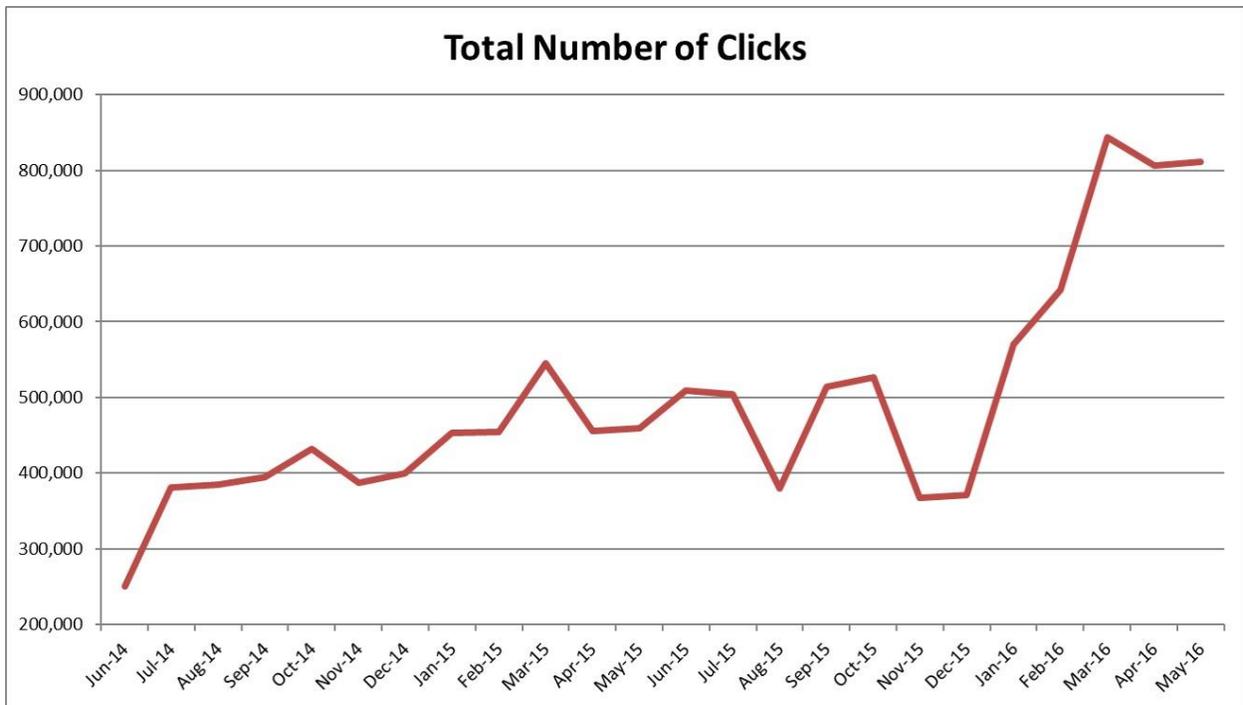
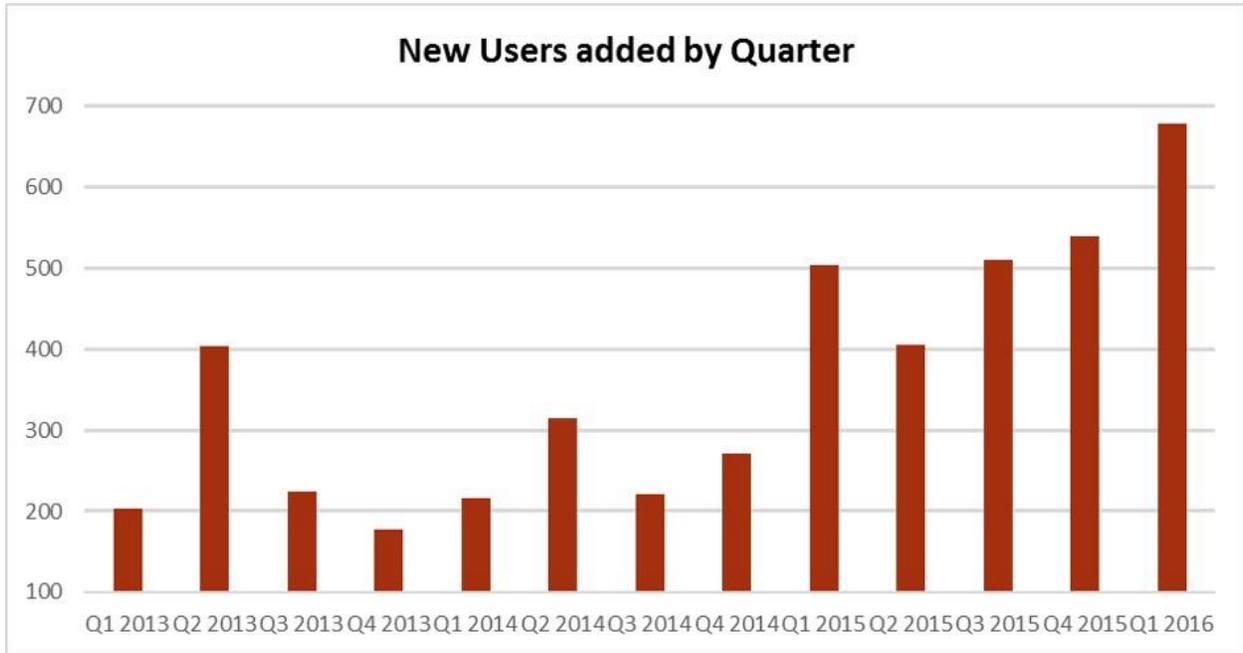
- **Current Participants:** Avera Creighton Hospital (Creighton), Avera St. Anthony's Hospital (O'Neill), Beatrice Community Hospital & Health Center (Beatrice), Boys Town National Research Hospital (Omaha), Cass County Health System (Atlantic, IA), Chase County Community Hospital (Imperial), CHI Health (including Grand Island, Kearney, Lincoln, Nebraska City, Omaha, Papillion, Plainview, Schuyler, Corning, IA, Council Bluffs, IA, and Missouri Valley, IA), Children's Hospital and Medical Center (Omaha), Columbus Community Hospital (Columbus), Community Hospital (McCook), Great Plains Health (North Platte), Mary Lanning Memorial Hospital (Hastings), Methodist Health System (including Omaha and Council Bluffs, IA), Montgomery County Memorial Hospital (Red Oak, IA), Myrtue Medical Center (Harlan, IA), Nebraska Medicine (Omaha and Bellevue), Nemaha County Hospital (Auburn), Regional West Medical Center (Scottsbluff), Sidney Regional Medical Center (Sidney), St. Francis Memorial Hospital (West Point), Arbor Health Plan, and Blue Cross and Blue Shield of Nebraska. For a complete list of participants, visit the [Participating Providers](#) link on the website.
- **Pending Implementations:** Antelope Memorial Hospital (Neligh), Auburn Family Health Center (Auburn), Cherry County Hospital (Valentine), Community Medical Center (Falls City), Community Memorial Hospital (Syracuse), Harlan County Health System (Alma), Lexington Regional Health Center (Lexington), Memorial Community Hospital (Blair), Osmond General Hospital (Osmond), Perkins County Health Services (Grant), Providence Medical Center (Wayne), Regional West Garden County (Oshkosh), Think Whole Person Healthcare (Omaha), Tri Valley Health System (Cambridge), and Warren Memorial Hospital (Friend).

## Updated Statistics: June 17, 2016

<b>Patient demographics across the HIE</b>	<b>3,216,081</b>	
• Total patients that have opt out	74,836	2.32%
• Total patients that have opted back in	5,186	6.93%
<b>Provider Information</b>		
• Number of providers	2,163	
• Number of healthcare professionals	3,977	
<b>Number of Queries</b>		
• Number of patients queried per month	11,938	
<b>Response Time:</b>		
• Percentage of application processes completed in less than 2 seconds		99.1%
<b>Number of results available via the HIE</b>	<b>121,874,845</b>	
• LAB	61,524,973	
• RAD	11,147,558	
• Transcription	49,202,314	

# NeHII New Users and Number of Clicks

June 2016



## NITC Strategic Initiatives Status Report

### Strategic Initiative, Action Item and Deliverable/Target

eHealth		Status	Notes
<b>1</b>	<b>Work with NeHII and UNMC to Support HIE through ONC grant.</b>		
1.1	18 Critical Access Hospitals, labs and other facilities implemented.	17 facilities recruited. 1 completed. 4 in progress	Physicians Lab is live. Auburn Family Health Center is scheduled to go live July 1. Community Memorial Hospital (Syracuse), CHI Health Nebraska Heart Institute Clinics, Antelope Memorial Hospital (Neligh) are in progress. Statements of work requested for 4 facilities.
1.2	5 ambulatory clinics and long-term care facilities implemented	Work on three clinic starting soon	Statements of Work requested by NeHII from Optum for 3 facilities (Grand Island Clinic, Think Whole Person Healthcare, CHI Health—TPN) 5 facilities recruited.
1.3	50 long-term care and other facilities implemented for Direct	In progress	40 facilities recruited; 10 facilities implemented; 53 user accounts set up.
1.4	5 HIE to HIE gateways developed	Not started	6 HIEs recruited. This functionality will be available when NeHII migrates to a new platform.
1.5	40 providers implemented for mobile ADT alerts	Not started	5 providers recruited; Recruitment for ADT alerts via mobile messaging is just starting.
1.6	8 Critical Access Hospitals to send syndromic surveillance data	In progress	8 facilities recruited; Community Hospital (McCook) is live. NeHII is exploring a reduced pricing model for facilities implementing ADT and syndromic surveillance..
1.7	5 facilities implemented for population health	Not started	5 health systems confirmed. Scheduling implementation of first two facilities.
1.8	Assistance with workflow analysis and integration provided	In progress	Use cases are being identified.
1.9	6 training modules developed	Not started	
1.10	2 demonstration projects which integrate HIE data developed	Not started	

**Nebraska Information Technology Commission  
EDUCATION COUNCIL**

**2016-18 Membership Renewals/Replacements EXPIRING June 30, 2016**

<u>Name</u>	<u>Representing</u>	<u>Status</u>
<b><u>HIGHER EDUCATION (2016-18 term)</u></b>		
Mary Niemiec	UN System	<b>Hank Bounds confirmed (6/27/16)</b>
Greg Maschman	Independent Colleges & Universities	<b>Tip O'Neill confirmed (6/28/16)</b>
<b><u>Tom Peters</u></b> (pro tem)	Community College System	<b>Dennis Baack confirmed (6/20/16)</b>
John Dunning	State College System	<b>Stan Carpenter confirmed (6/16/16)</b>
<b><u>K-12 EDUCATION (2016-18 term)</u></b>		
Gary Needham	Educational Service Units	<b>Dave Ludwig confirmed (7/5/16)</b>
Dan Hoelsing	Administrators	<b>Mike Dulaney confirmed (6/16/16)</b>
<b><u>Alan Moore</u></b>	School Board Members	<b>Sallie Svatora confirmed (6/22/16)</b>
Burke Brown	Public Teachers	<b>Nancy Fulton confirmed (6/17/16)</b>

**\*Note\***

**Underlined Candidates** are new voting members to the NITC Education Council and have a brief biographical statement attached to this document

**RECOGNITION**

**The Nebraska Information Technology Commission wishes to recognize and thank Mr. Randy Schmailzl for his many years of distinguished service on the Education Council, in the role of advising the Commission on matters of education technology initiatives, funding, and policy.**

## Biographical Sketches

### **Mr. Thomas D. Peters**

Tom Peters has worked for Central Community College (CCC) since 1981 and has served in his current position as IT Manager for the past 21 years. He is responsible for all voice, video and data networks and all IT services delivered to support stakeholders for the CCC area. He replaces Mr. Randy Schmailzl on the Education Council as representative of the Nebraska Community College System. Mr. Peters also serves on the Network Nebraska Advisory Group (NNAG) representing the Nebraska community colleges. Mr. Peters earned his B.S. Degree from Kearney State College in Business Administration and his Master's Degree in Education with a Business Specialization from the University of Nebraska. He has considerable work experience in classroom education, software development, distance education and network management. Tom has been instrumental in positioning CCC as an educational industry leader in IT infrastructure and deliverable IT services. Tom also takes a leadership role in coordinating the Nebraska and Kansas IT Summits.

### **Alan Moore**

Alan Moore is a director on the Educational Service Unit 3 Board representing Papillion and Ralston area. He replaces Darren Oestmann on the Education Council as representative of the Nebraska Association of School Boards. Mr. Moore earned his MBA from the University of Nebraska-Omaha, with emphasis in Systems Management and Economics. He has additional degrees from Georgetown University and St. Louis University. Alan has worked for the U.S. Air Force for 22 years as an intelligence officer, and program/project manager. He has experience working with helpdesks, data centers, GIS, deskside support, and project management. He also currently teaches History classes at Metro Community College.

## NITC Strategic Initiatives Status Report

Strategic Initiative, Action Item and Deliverable/Target

<b>Network Nebraska (Education Council)</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Prepare for the future of Network Nebraska</b>		
1.1	Develop strategy to accommodate community affiliate connections	In progress	Task group assigned, 2/17/2016; Have had meetings with Ponca, Omaha, Lincoln, and Columbus to explore Community Anchor Institution collaboration.
1.2	Use automated tools to monitor network uptime and web depiction	In progress	Task group assigned, 2/17/2016; Working with UNCSN to develop heat map and graphical depiction of circuit status.
1.3	Implement incident management and change control frameworks	In progress	Task group assigned, 2/17/2016; Working with UNCSN to improve external communication to affected entities on an event by event basis.
1.4	NNAG & CAP to guide OCIO decisions about network growth/reliability	In progress	Task group assigned, 2/17/2016; CAP and NNAG continue to collaborate and explore infrastructure options.
1.5	Review and update security services and practices and strategize future services	In progress	Task group assigned, 2/17/2016; Invitation will be going out to Network Nebraska entities to attend the CyberSecurity Conference.
<b>2</b>	<b>Serve as the communication hub for new and existing Participants</b>		
2.1	Develop and implement a communications strategy	In progress	Task group assigned, 2/17/2016
2.2	Conduct an annual services survey of all Participants to guide service development	In progress	Task group assigned, 2/17/2016

## NITC Strategic Initiatives Status Report

Strategic Initiative, Action Item and Deliverable/Target

<b>Digital Education (Education Council)</b>		<b>Status</b>	<b>Notes</b>
<b>1</b>	<b>Create professional development opportunities for Nebraska educators</b>		
1.1	Establish a multimodal, virtual communities of practice for all levels of educators	In progress	Task group assigned, 2/17/2016
<b>2</b>	<b>Address students' technical challenges in high school to college transition</b>		
2.1	Conduct a research project to identify existing infrastructure and pedagogy efforts	In progress	Task group assigned, 2/17/2016; EC subcommittee met with EDUCAUSE researcher to explore a joint research project.
2.2	Identify opportunities for collaboration to ease student transition to college	In progress	Task group assigned, 2/17/2016
2.3	Identify key challenges for transitioning students and mitigate the challenges	In progress	Task group assigned, 2/17/2016
2.4	Create an effective practices guide for using flexible learning technologies	In progress	Task group assigned, 2/17/2016
2.5	Develop a strategy to encourage vendors to implement data exchange standards	In progress	Task group assigned, 2/17/2016
<b>3</b>	<b>Address the need for equity of access as it relates to digital education</b>		
3.1	Form a joint study group to identify opportunities/actions to ensure equitable access	In progress	Task group assigned, 2/17/2016; Meetings with school districts and libraries are showing some promise for interim broadband solutions.
3.2	Work with other stakeholders to ensure equitable Internet access for all students	In progress	Task group assigned, 2/17/2016
3.3	Identify and promote accessible products and services to achieve equitable access	In progress	Task group assigned, 2/17/2016

## Attachment 5-e

July 7, 2016

**To:** NITC Commissioners

**From:** Nathan Watermeier, State GIS Coordinator  
Tim Cielocha, Chair, GIS Council  
Jon Kraai, Vice-Chair, GIS Council  
Bill Wehling, Past-Chair, GIS Council

**Subject:** GIS Council Report

### **Membership Update**

There are four GIS Council seats up for renewal in September 2016. These seats include Public Power Districts, Lincoln Metro, Nebraska geospatial professional association, and one Member at Large. The GIS Council nomination and selection committee provided notice in June to seek nominations. The current member seat representatives were also notified to seek interest in being re-nominated. Specific selection criteria were used in the process that was in accordance with the GIS Council charter.

The following candidates are the nominations coming forward by the GIS Council selection committee. The final appointments of these individuals are subject to approval by the Commission and appointed by the Governor.

### **Action: Approve slate of nominations for 3-year term for GIS Council.**

- Tim Cielocha of Nebraska Public Power District to fill Nebraska Public Power Districts GIS Council seat. Mr. Cielocha is also the current Chair to the GIS Council.
- Jeff McReynolds of the City of Lincoln/Lancaster County to fill the Lincoln Metro GIS Council seat.
- Lesli Rawlings of the Geographic Educators of Nebraska to fill the Nebraska geospatial professional association GIS Council seat.
- Todd Whitfield of Lamp Rynearson to fill the Member At Large GIS Council seat.

### **Nebraska Statewide Elevation Program**

Nebraska has identified the collection of topographic (i.e., land surface, elevation) information as a priority and employs the Nebraska GIS Council's Elevation Working Group as a coordinating group for the effort. The group includes individuals representing federal, state and local entities. Since 2008, the group, its members, and partner agencies have worked to collect LiDAR data over more than 75% of Nebraska's land area.

LiDAR is an acronym for Light Detection and Ranging, a technology that is used in conjunction with GPS technology, an aerial collection platform, and a processing computer to collect data points that can be used to define the location of objects that reflect near infrared light, including the land surface, structures and vegetation.

The Elevation Working Group has outlined a plan earlier this year to complete the initial phase of the program. This involves collecting LiDAR over uncompleted areas of the state. This area encompasses the Sandhills region. Currently, the project has secured nearly \$3.5 million in seed funding from federal, state and local partners. The remaining funding is contingent on additional support of local, state, and federal entities. The current federal partners include the Natural Resources Conservation Service (NRCS), U.S. National Forest Service, and the U.S. Geological Survey (USGS). State partners involve the Nebraska

Department of Natural Resources, Nebraska Department of Roads, Nebraska Department of Environmental Quality, and the Office of the Chief Information Officer. Local partners include the Twin Platte Natural Resources District, Upper Elkhorn Natural Resources District, Upper Loup Natural Resources District, Upper Niobrara-White Natural Resources District, and the Lower Loup Natural Resources District.

### ***Sandhills Project Area Metrics***

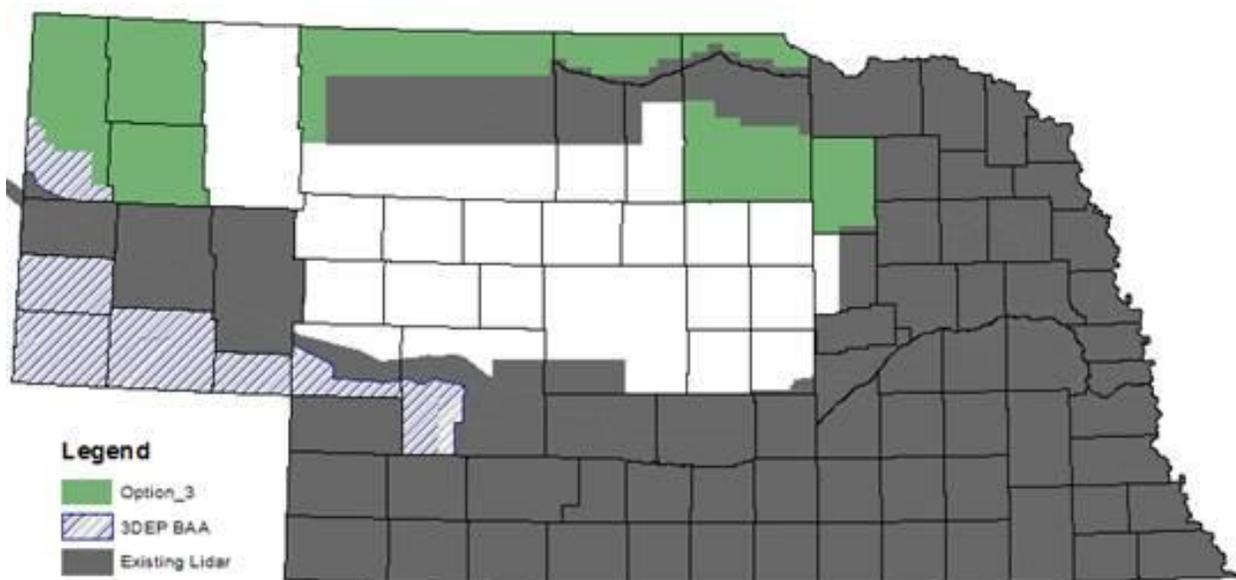
The following are details about the current project area. All values are estimated and subject to change. The estimated unit cost of collection is anticipated to decrease somewhat during contracting.

Area = **18,111 square miles** (the white area in the figure below)

Cost = **\$4 to \$4.6 Million** (depends on level of involvement for price break per square mile)

Benefit/Cost\* = **5:1** for QL2 data, the **project value** is estimated at **\$23,000,000**.

\*Reference: Dewberry, 2011, Final report of the National Enhanced Elevation Assessment (revised 2012): Fairfax, Va., Dewberry, 84 p. plus appendixes, <http://www.dewberry.com/Consultants/GeospatialMapping/FinalReport-NationalEnhancedElevationAssessment>.



### ***Other LiDAR Collection Projects***

#### South Platte Basin

The South Platte Basin project completed data flight acquisition in mid-April. This project covers approximately 4,500 square miles using \$1.3 million among several stakeholders including a 50% match from the USGS awarded in 2015. The project is contracted through USGS who contracts out for data collection and preparation of the data. They are currently processing all the data files for quality control measures. The final data deliverable is not due till early 2017.

## Omaha Metro Area

Partners in Douglas County, the City of Omaha, Sarpy County, the City of Fremont, the City of Blair, and the Papio-Missouri River Natural Resource District have received a 3DEP USGS matching grant to acquire high-resolution LiDAR data across 800+ square miles around the metropolitan Omaha area. This amounts to approximately \$230,000 in total cost. Data acquisition could begin as early as the fall of 2016.

### **NebraskaMAP – Data Sharing and Web Services Network**

The new public facing NebraskaMAP (<http://www.NebraskaMAP.gov>) has been unveiled to state agencies to begin uploading their data sets and begin using the new web site. All state agencies that use geospatial data are working together to reduce duplicated datasets and streamline the data sharing process. This also involves accessing data in one sole location for the most current information.

The basis for cataloging data and resources to include on NebraskaMAP require metadata. An initial set of data has been peer-reviewed by the NebraskaMAP Data Subcommittee and approved for being cataloged in the new system. There are more than 40 data resources involving more than 150 files that are currently available for public access. The next phase of the project is to partner with other data stewards who share public data through local and county governments and other political subdivisions.

New modifications to the existing Metadata Standards (NITC 3-201) have been approved by the NITC Technical Panel and will need to have action by NITC. The changes to these standards include detailed documentation on definitions on minimum and complete metadata categories for use with creating and maintaining geospatial data.

The web site will eventually include a component to provide an easier way to view and access available imagery, LiDAR and other raster and large file size datasets for Nebraska. This component is currently under development. NebraskaMAP is a product of the State of Nebraska Geospatial / GIS Enterprise platform that is currently underway through the OCIO Roadmap.

**Nebraska Spatial Data Infrastructure (NESDI) Status Report**

Report Date: July 7, 2016

<b>NITC Strategic Initiatives Status Report</b>			
Strategic Initiative, Action Item and Deliverable Target		Status	Notes
<b>Nebraska Spatial Data Infrastructure (NESDI)</b>			
<b>1</b>	Formalize the definition of the Nebraska Spatial Data Infrastructure (NESDI) and data stewardship		
1.1	Establish an ad hoc committee of GIS Council representatives	Completed	
1.2	Develop a document that defines the NESDI and the role of data stewardship	In Progress	The definition for the NESDI and data stewardship has drafted. Priority is on developing and implementing other NESDI business plans and then provide resource information back to this document.
<b>2</b>	Geodetic and Survey Control Inventory and Assessment		
2.1	Establish an ad hoc committee involving stakeholders from government, private industry and the survey community	Completed	
2.2	Develop a current inventory and assessment report of geodetic and survey control	In Progress	A low-distortion projection (LDP) project has begun under the direction of the State Surveyor's office with assistance with other registered land surveyors of Nebraska. The LDP will create the best ground to grid solution with control established using recognized local control. This will eventually lead to a better source data for all GIS horizontal calculations that improves all of our spatial data sets. Survey and geodetic control recommendations have been identified and included into ongoing data collection projects.
<b>3</b>	Nebraska Statewide Elevation Program		
3.1	Establish an Elevation Working Group	Completed	
3.2	Identify standard elevation product(s) and develop a set of standards	Completed	Developed and adopted on October 28, 2014
3.3	Develop a business plan	Completed	Developed and approved on March 26, 2015
3.4	Implement the program	In Progress	A plan is in place to complete LiDAR acquisition for the remainder part of the state. This area is predominantly the Sandhills region consisting of 18K square miles. The Natural Resources Conservation Service is providing the majority of the assistance to this project. Nearly \$3.5 million in seed funding has been identified from federal, state and local partners in order to start the project. The South Platte project has completed flight

			data acquisition and is conducting quality control procedures on the data. The Omaha Metro area has gathered partners for updated LiDAR for 800+ square miles. This project was awarded with match dollars with the National 3DEP USGS program and is estimated at \$230,000.
<b>4</b>	<b>Nebraska Statewide Imagery Program</b>		
4.1	Establish an Imagery Working Group	Completed	
4.2	Identify standard imagery product(s) and develop a set of standards	Completed	Developed and adopted on October 28, 2014
4.3	Develop a business plan	In Progress	Current costs for data acquisition and services have been sought through a Request for Information (RFI) process. These results have been summarized in February 2016.
4.4	Implement the program	Not Started	
<b>5</b>	<b>Street Centerline-Address Database</b>		
5.1	Establish a Street Centerline and Address Working Group	Completed	
5.2	Identify standard street centerline and address product(s) and develop a set of standards	Completed	Developed and adopted on March 27, 2015
5.3	Develop a business plan	In Progress	Additional criteria is being defined include data stewardship, data processing and workflows, costs, and plans with current E-911 and future NG9-1-1 coordination efforts.
5.4	Implement the program	In Progress	Efforts are underway at the Nebraska Department of Roads to begin evaluating and testing historical road network data for inclusion into the statewide street centerline database.
<b>6</b>	<b>Statewide Land Record Information System</b>		
6.1	Establish a Land Records Working Group	Completed	
6.2	Update the current NITC 3-202 Land Record and Information Mapping Standards	In Progress	Original standards adopted on January 27, 2006 and amended on March 1, 2011.
6.3	Develop a Nebraska Statewide Parcel Geodatabase Development and Maintenance Plan	Completed	Developed and approved on May 27, 2015
6.4	Implement the program	In Progress	All counties that have digitized parcel data have now been collected except for one county. An online parcel web viewer has been upgraded and provides state agencies secure access to this data as it gets assembled into the geodatabase. Efforts are currently underway to begin collecting a refresh data set starting later this fall.

<b>7</b>	<b>NebraskaMAP - A Geospatial Data Sharing and Web Services Network</b>		
7.1	Establish a NebraskaMAP Working Group	Completed	
7.2	Develop NebraskaMAP Geospatial Data Sharing and Web Services Network Business Plan	In Progress	The current business plan has been modified for inclusion between the State of Nebraska Geospatial/GIS Enterprise and OCIO Roadmap initiatives.
7.3	Develop and implement NebraskaMAP data clearinghouse enterprise platform	In Progress	Initial release of the web site has been out to State Agencies since May. More than 40 data resources involving more than 150 files have been reviewed and cataloged and are currently available for public access. The next phase of the project is to partner with other data stewards who share public data through local and county governments and other political subdivisions. Metadata standards have been updated and awaiting NITC approval.

**State of Nebraska  
Nebraska Information Technology Commission**

**AMENDMENTS TO TECHNICAL PANEL CHARTER**

1. Section 6 is amended to read:

6. Membership

6.1 ~~Number of Members~~

The Technical Panel ~~may include but not be limited to~~ shall be comprised of five members approved by the Commission.

~~6.2 Representation~~

~~6.2.16.1.1~~ One representative from the Nebraska Educational Telecommunications Commission;

~~6.2.26.1.2~~ One representative from the office of Chief Information Officer;

~~6.2.36.1.3~~ One representative from the University of Nebraska Computing Services Network;

~~6.2.46.1.4~~ One member with expertise in assistive technology; and

~~6.2.56.1.5~~ One member representing K-12 education; and

~~6.2.6 Other members as specified by the Commission.~~

~~6.36.2~~ Member Recommendations and Approval

Recommendations for membership on the Technical Panel will be considered: ~~from the agency represented for members in sections 6.2.1 through 6.2.3;~~ from the CIO of the University of Nebraska and the CIO of the State of Nebraska for the member listed in ~~section 6.2.4;~~ Section 6.1.4 and from the Education Council of the NITC for the member listed in ~~section 6.2.5~~ Section 6.1.5.

~~All members of the Technical Panel~~ The members listed in Sections 6.1.4 and 6.1.5 must be approved by the Commission.

~~6.46.3~~ Member Responsibilities; Conflicts of Interest

A Member with a potential conflict of interest in a matter before the Technical Panel or a potential interest in a contract with the Technical Panel is subject to the provisions of the Nebraska Political Accountability and Disclosure Act including ~~sections~~ Sections 49-1499.02 and 49-14,102. A Member with a potential conflict of interest or a potential

interest in a contract shall contact the Nebraska Accountability and Disclosure Commission and take such action as required by law.

2. Section 7 is amended to read:

## 7. Meeting Procedures

### 7.1 Chair~~(s)~~

7.1.1 A Chair, elected by the members, will conduct the meetings of the Technical Panel, oversee the establishment, operation and dissolution of committees, propose meeting agendas, and maintain the general operations of the Technical Panel.

7.1.2 The Chair of the Technical Panel will serve a one-year term beginning January 1 of each year.

### ~~7.2 Quorum and Action Items~~

~~An official quorum consists of at least 50% of the members or their alternates. No official voting business may be conducted without an official quorum. Issues shall be decided by a majority vote of the members present.~~

### ~~7.3 Designated Alternates and Non-voting Alternates~~

~~Each member of the Technical Panel shall designate one (1) official alternate to be approved by the Commission. This official voting alternate shall be registered with the Office of the Chief Information Officer and NITC and, in the absence of the official member, have all the privileges as the official member on items of discussion and voting.~~

### ~~7.47.2 Meeting Frequency~~

~~The Technical Panel shall meet not fewer than four times per year (quarterly).~~

### ~~7.57.3 Notice of Meetings~~

~~Notice of the time and place of each regular meeting of the ~~Council~~Technical Panel shall be made at least seven (7) calendar days prior to the meeting. Notice shall be published on the Technical Panel's website at <http://www.nitc.ne.gov/>.~~

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Current version: [http://nitc.nebraska.gov/technical\\_panel/documents/charter.pdf](http://nitc.nebraska.gov/technical_panel/documents/charter.pdf)

**State of Nebraska  
Nebraska Information Technology Commission  
Standards and Guidelines**

**AMENDMENTS TO NITC 1-201 (Agency Information Technology Plan)**

1. Section 2 is amended to read:

2. Approved Format for Agency Information Technology Plans

Attachment A, entitled "Agency Information Technology Plan," is the approved format for agency information technology plans. An online version of the form will be available at <https://cioapps.nebraska.gov/ITPlan>.

2. Attachment A is amended to read:

Nebraska Information Technology Commission  
and the  
Office of the Chief Information Officer

## Agency Information Technology Plan

Due: September 15, ~~2014~~2016

**Notes about this form:**

1. **REQUIREMENT.** “On or before September 15 of each even-numbered year, all state agencies, boards, and commissions shall report to the Chief Information Officer, in a format determined by the [Nebraska Information Technology Commission], an information technology plan that includes an accounting of all technology assets, including planned acquisitions and upgrades.” (NEB. REV. STAT. § 86-524.01). This document -- prepared with input from state agencies and the Technical Panel -- is the approved format for agency information technology plans. This form should be treated as if it is a public record. Do not include information which would compromise information technology security.
2. **DEADLINE.** The Agency Information Technology Plan is due on September 15, 2016.
3. **SUBMITTING THE FORM.** The form must be submitted online at <https://cioapps.nebraska.gov/ITPlan>.
4. **QUESTIONS.** Contact the Office of the CIO/NITC at (402) 471-7984 or [ocio.nitc@nebraska.gov](mailto:ocio.nitc@nebraska.gov).

Agency

Agency IT Contact

Email Address

Phone

## 1. Current Assets

### 4.3.1.1 Hardware

#### 4.3.1 General Description of Computing Environment

Provide a general description of the elements of the computing environment in the agency (mainframe, midrange, desktop computers, thin clients, etc.).

Description:

#### 4.3.21.1.1 Hardware Assets

Complete the following tables. For "current" assets, enter the total number of each item currently owned/leased by the agency. For "planned" assets, enter an estimated number of each item at the end of the biennium on June 30, ~~2017~~2019.

	Current					Planned				
	Windows/Microsoft	Apple	Linux/Unix	Android	Other	Windows/Microsoft	Apple	Linux/Unix	Android	Other
Desktop Computers										
Laptop Computers										
Thin Client										
Tablet Computers										
Smart Phones										

	Current					Planned				
	Windows/Microsoft	Linux/Unix	VMware	Hyper-V	Other	Windows/Microsoft	Linux/Unix	VMware	Hyper-V	Other
Physical Servers										
Virtual Servers										

Provide a brief narrative describing the reason/rationale for any significant change in the number of planned hardware assets as compared to the number of current hardware assets. Also, provide a description of the agency's hardware replacement cycle.

Narrative:

## 4.4.1.2 Applications

### 4.4.1.2.1 Off-the-Shelf Applications

Provide an estimated number of licenses for each of the following applications:

	Estimated Number of Users/Licenses	Version(s) (Optional)
<b>Productivity Suite</b>		
Microsoft Office		
WordPerfect Office		
OpenOffice/StarOffice		
Other (Specify)		
<b>Internet Browser</b>		
- Microsoft Internet Explorer		
- Firefox/Mozilla		
- Google Chrome		
- Safari		
- Other (Specify)		
<b>Desktop Antivirus/Endpoint Protection</b>		
Microsoft System Center Endpoint Protection		
Sophos		
Symantec/Norton		
McAfee		
Malware Bites		
Other (Specify)		
<b>Instant Messaging</b>		
Office Communicator/OCIO Lync/Skype for Business		
Other (Specify)		
<b>Web Conferencing</b>		
OCIO WebEx		
OCIO Lync/Skype for Business		
Adobe Connect		
Other (Specify)		
<b>Database Management (DBMS)</b>		
IBM		
Oracle		
Microsoft SQL		
AS/400		
Other (Specify)		
<b>Applications Development Tools</b>		
Microsoft Visual Studio		
IBM Rational Application Developer		
Micro Focus COBOL		
Other (Specify)		
<b>Business Analytics</b>		
OBIEE		
SAP Crystal Reports		
Cognos		
Other (Specify)		

<b>IT Service Management Suite</b>		
Microsoft Service Manager		
Remedy		
iSupport		
Track-It		
ServiceNow		
Other (Specify)		

**4.1.21.2.2 Other Off-the-Shelf Applications**

List other significant off-the-shelf applications utilized by the agency:

<b>Application</b>	<b>Estimated Number of Users/Licenses</b>	<b>Version(s) (Optional)</b>

**1.2.3 Software as a Service (SaaS)**

List any applications that are licensed on a subscription basis by the agency which are delivered over the Internet (sometimes called web-based software; on-demand software; or, hosted software):

<b>Application</b>	<b>Vendor</b>

**4.1.31.2.4 Custom Applications**

List custom applications used by the agency, including (a) the general purpose of the application; (b) the platform on which it is running; (c) application development tools used; and (d) how the application is supported.

Application:  
Platform:  
Development Tools:  
How Supported:  
Internet Accessible: Y/N

**4.21.3 Data**

**4.2.11.3.1 Databases**

List the significant databases maintained by the agency and a brief description of each.

Database:  
Brief Description:  
Types of Data: (Check boxes: PII, HIPAA, PCI, FTI, CJIS, SSA, None of the above) [definitions link]  
Data Classification: (Radio buttons: Highly Restricted; Confidential; Managed Access Public; Public) [definitions link]

**4.2.21.3.2 Data Exchange**

List the significant electronic data exchanges your agency has with other entities.

Title/Description:  
Other Entity:

Purpose:  
Is this exchange encrypted?:

### 1.3 Hardware

#### 1.3.1 General Description of Computing Environment

Provide a general description of the elements of the computing environment in the agency (mainframe, midrange, desktop computers, thin clients, etc.).

Description:

#### 1.3.2 Hardware Assets

Complete the following tables. For "current" assets, enter the total number of each item currently owned/leased by the agency. For "planned" assets, enter an estimated number of each item at the end of the biennium on June 30, 2017.

	Current				Planned			
	Windows	Apple	Linux	Other	Windows	Apple	Linux	Other
Desktop Computers								
Laptop Computers								
Tablet Computers								

	Current					Planned				
	Windows	Linux	VMware	Hyper-V	Other	Windows	Linux	VMware	Hyper-V	Other
Physical Servers										
Virtual Servers										

Provide a brief narrative describing the reason/rationale for any significant change in the number of planned hardware assets as compared to the number of current hardware assets. Also, provide a description of the agency's hardware replacement cycle.

Narrative:

### 1.4 Network Environment

#### 1.4.1 General Description

Provide a general description of the agency's network environment. You may optionally include any related diagrams, etc. Also, describe any desktop management and/or LAN monitoring tools used by the agency.

Description:

**1.4.2 Network Devices**

Complete the following table. For "current" devices, enter the total number of each item currently owned/leased by the agency. For "planned" devices, enter an estimated number of each item at the end of the biennium on June 30, 2017.

	Current	Planned
Firewalls (Hardware)		
Load Balancers (Hardware)		
Wireless Access Points		
Video Cameras (USB)		
IP Phones		
Web Servers		
IPS/IDS Appliances		
Non-OCIO provided Switches		
Application Delivery/Gateway (e.g. Citrix, Terminal Services appliances) (Specify)		

Provide a brief narrative describing the reason/rationale for any significant change in the number of planned devices as compared to the number of current devices.

Narrative:

**1.5 Server Rooms**

**1.5.1 Server Rooms**

Many agencies have invested in dedicated space for housing servers and network equipment. This dedicated space provided close proximity of the equipment to an agency's offices and support staff. During the early years of client/server technology, close proximity offered many advantages and was even essential in some situations. Changes in technology and higher network speeds have eroded the advantages of close proximity to the extent that separate server rooms often represent a duplication of costs and an impediment to good security, reliability, disaster recovery, and efficient operations. The trend in all large organizations is consolidation of servers and data centers.

The purpose of this section is to document the number and size of server rooms and encourage planning for use of shared services that would eliminate the need for most server rooms.

Please complete the following information:

- 1. Does your agency have servers in the OCIO data center (yes / no):
- 4-2. Does your agency have a server room (yes / no); [If yes, proceed to next question. If no, proceed to Section 2.]
- 2-3. Where is the server room located (city, building, floor):
- 3-4. What is the size of the server room (square footage):
- 4-5. Does the room have special electrical power feeds (yes/no):
- 6-6. Does the room have special cooling capacity (yes/no):
- 6-7. Does the room have uninterruptible power supply (yes/no):
- 8. Does the room have backup power, such as a generator (yes/no):
- 7-9. Does the room have a separate fire suppression system (yes/no):
- 8-10. What equipment is located in the server room (number of servers, racks, network devices, etc.)?
- 9-11. What security is available for the server room?

Provide a brief narrative describing your agency's plans to reduce or eliminate the server room or explain why it is still needed.

## 2. Staff and Training

### 2.1 Staff and Related Support Personnel

Identify staffing necessary to maintain your current IT environment, including contractor and OCIO staff supporting your agency specific environment.

	Approximate FTE
Agency IT Staff	
Contractors	
OCIO Staff	

### 2.2 IT Related Training

Summarize the agency's efforts to address training needs relating to information technology, including training for IT staff and users.

Description:

## 3. Survey

	Yes	No	In Progress	Not Applicable
<b>3.1 Security</b> - Please answer the following questions regarding your agency's efforts to maintain a secure information technology environment. [The questions refer to the Nebraska Information Technology Commission's Security Policies. These policies are available at <a href="http://nitc.ne.gov/standards/">http://nitc.ne.gov/standards/</a>   If questions, contact the State Information Security Officer at <a href="mailto:siso@nebraska.gov">siso@nebraska.gov</a> .]				
Has your agency implemented the NITC's Security Policies?				
Has your agency implemented other security policies?				
<u>Has your agency designated a Security Officer?</u>				
<u>Has your agency performed an audit of all data under your control?</u>				
<u>Has your agency classified all data under your control?</u>				
<u>Does your agency schedule vulnerability scans of servers containing sensitive information?</u>				
<u>Does your agency have regularly scheduled penetration tests?</u>				
<u>Has your agency performed a penetration test in the last year?</u>				
<u>Does your agency have a security awareness program in place?</u>				
<u>Does your agency allow the use of removable media such as flash drives, external hard drives, etc.?</u>				
<b>3.2 Disaster Recovery and Business Continuity</b> - For purposes of this document, the term "Disaster Recovery Plan" refers to preparations for restoring information technology systems following a major disruption.				
Does your agency have a disaster recovery plan?				
If your answer to the previous question is YES, have you tested your				

	Yes	No	In Progress	Not Applicable
disaster recovery plan?				
Does your agency perform regular back-ups of important agency data?				
If your answer to the previous questions is YES, does your agency maintain off-site storage of back-up data?				
<b>3.3 Accessibility / Assistive Technology</b>				
Does your agency include the Nebraska Technology Access Clause in contracts for information technology purchases? (See Neb. Rev. Stat. § 73-205. The Technology Access Clause is posted at <a href="http://nitc.ne.gov/standards/">http://nitc.ne.gov/standards/</a> )				
Does your agency have procedures in place to identify the information technology related requirements of users with disabilities?				
Does your agency provide training opportunities for management, procurement, and technical personnel on how to meet the accessibility needs of users with disabilities?				
Has your agency evaluated its website(s) to ensure accessibility to all persons with disabilities? If yes, what tools were used to evaluate accessibility:				
<b>3.4 Geographic Information System (GIS) / Geospatial Data</b>				
Does your agency have plans, over the next biennium, for the development and/or acquisition of GIS/geospatial data (ie, eg, Mapping, imagery, LiDAR, GPS collected data, geodatabase development, metadata, geocoding, demographic and address data, etc.) or geospatial data applications or web services?				
If your answer is YES, please provide a brief description and/or reference where that description is provided in Section 4 below:				
For data that is created or updated, will it follow appropriate NITC standards: NITC 3-201 Geospatial Metadata NITC 3-202 Land Records Information and Mapping NITC 3-203 LiDAR Elevation Acquisition Using LiDAR NITC 3-204 Imagery NITC 3-205 Street Centerline NITC 3-206 Address				
Will your agency provide the geospatial data created or updated through the project electronically with other government agencies in the State that may have a need for such data?				
Please provide a brief description with your proposed plan in Section 4.				
If geospatial data and web mapping services are created or updated and is needed by other state agencies or for public consumption, will you register the metadata with NebraskaMAP.gov?				

	Yes	No	In Progress	Not Applicable
If your project incorporates web mapping services, are you willing to make use of current state resources by linking your project to web and data services that are maintained through other online state agency repositories? This would be for data not created by your project but is needed for your project to be effective (ie, base maps such as aerial imagery, street centerlines, and other authoritative base map data provided as a service through NebraskaMAP.gov).				
If your project will be creating web mapping services, are you willing to make available the web services links (ie, REST service), without costs, by allowing connectivity of other state agencies web mapping services to your service?				
Do you have a data backup, failover and redundancy plan in place for geospatial data holdings?  Please provide a brief description with your proposed plan in Section 4.				
<b>3.5 Mobile Apps</b>				
Does your agency use mobile apps to provide services through mobile devices?				
<b>3.6 Social Media</b>				
Does your agency use social media as a communications channel? If yes, which social media channels do you use (Facebook, Twitter, other)?				

## 4. Projects and Future Plans

### 4.1 Projects Currently Active

List current IT projects, including a description of the project, the current project status, projected completion date and costs.

Project Title:  
 Brief Description:  
Describe project alignment with agency goals:  
 Current Status:  
 Projected Completion Date:  
 Total Project Cost:

### 4.2 Projects Planned to be Started in **FY2015FY2017**

List IT projects that are planned to start before the end of the current fiscal year which were not listed in the previous section.

Project Title:  
 Brief Description:  
Describe project alignment with agency goals:

Projected Start Date:  
Projected Completion Date:  
Total Project Cost:

#### **4.3 Projects Planned for the ~~FY2015-2017~~2017-2019 Biennium**

List IT project planned for the next biennium. (Note: If funding for a project has been requested and an IT Project Proposal entered in the Nebraska Budget Request and Reporting System, you only need to list the project title and note that it is included in the agency budget request.)

Project Title:  
Brief Description:  
Describe project alignment with agency goals:  
Projected Start Date:  
Projected Completion Date:  
Total Project Cost:

#### **4.4 Long-Term Plans (Beyond the ~~FY2015-2017~~2017-2019 Biennium)**

Describe any long-term plans for projects to be started after the ~~FY2015-2017~~ biennium2017-2019 Biennium.

Agency Narrative:

#### **4.5 Other Issues**

This is a general comment section where the agency can identify issues not captured in another section of the plan. This provides an opportunity to address issues which may, or may not, impact an agency IT budget; such things as known risks, trends, or issues for which there is not currently enough information to be included in the other sections. This section can also be used to summarize the agency's strategies and future direction for the use of information technology within the agency.

Agency Narrative:

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Current version: <http://nitc.nebraska.gov/standards/1-201.html>

**State of Nebraska  
Nebraska Information Technology Commission  
Standards and Guidelines**

**AMENDMENTS TO NITC 1-202 (Project Review Process)**

1. Attachment B is amended as follows:

All dates are revised to be consistent with the 2017-2019 biennial budget timeline.

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Current version: <http://nitc.nebraska.gov/standards/1-202.html>

**State of Nebraska  
Nebraska Information Technology Commission  
Standards and Guidelines**

**AMENDMENTS TO NITC 3-201 (Geospatial Metadata Standard)**

1. Section 1.1 is amended to read:

1.1 Steps/Timeline for Implementation

- a. State agencies and other applicable state funded entities shall institute procedures for complying with standard for new geospatial data development or acquisition upon adoption of standard by the NITC.
- b. State agencies and other applicable state funded entities shall complete initial listing of existing, applicable geospatial data holdings within three months of the adoption of standard by NITC.
- c. State agencies and other applicable state funded entities shall complete minimum metadata documentation of existing, applicable geospatial data holdings within six months of the adoption of standard by NITC. More information about ~~metadata~~ minimum requirements ~~are~~ is identified in ~~section 3.0~~ Appendix I. Metadata Categories and Definitions.
- d. State agencies and other applicable state funded entities shall complete ISO 19115-compliant metadata documentation of existing and applicable geospatial data holdings within 12 months of the adoption of standard by NITC. Complete metadata categories and definitions are located in Appendix I.

2. Section 3 is amended to read:

3.0 Definitions

Content Standard for Digital Geospatial Metadata - A comprehensive national metadata standard developed and adopted by the Federal Geographic Data Committee (FGDC) under the authority of Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure," which was signed on April 11, 1994, by President William Clinton. Section 3, Development of a National Geospatial Data Clearinghouse, paragraph (b) states: "Standardized Documentation of Data, ... each agency shall document all new geospatial data it collects or produces, either directly or indirectly, using the standard under development by the FGDC, and make that standardized documentation electronically accessible to the Clearinghouse network." This standard is the data documentation standard referenced in the executive order. Since its initial development, this metadata content standard has undergone revision as deemed necessary by the FGDC, and will like undergo further revisions in the

future.

Geospatial Data - A term used to describe a class of data that has a geographic or spatial nature. The data will usually include locational information (latitude/longitude or other mapping coordinates) for at least some of the features within the database/dataset.

ISO 19115:2003 – International Standards Organization (ISO) defines the schema required for describing geographic information and services. It provides information about the identification, the extent, the quality, the spatial and temporal schema, spatial reference, and distribution of digital geographic data. It is applicable to: the cataloging of datasets, clearinghouse activities, and the full description of datasets; and geographic datasets, dataset series, and individual geographic features and feature properties. It defines: mandatory and conditional metadata sections, metadata entities, and metadata elements; the minimum set of metadata required to serve the full range of metadata applications (data discovery, determining data fitness for use, data access, data transfer, and use of digital data); optional metadata elements - to allow for a more extensive standard description of geographic data, if required; and a method for extending metadata to fit specialized needs. It is applicable to digital data, its principles can be extended to many other forms of geographic data such as maps, charts, and textual documents as well as non-geographic data.

Metadata - Data describing a GIS database or data set including, but not limited to, a description of a data transfer mediums, format, and contents, source lineage data, and any other applicable data processing algorithms or procedures.

~~Metadata-lite – A subset of the full FGDC-compliant metadata (data title, data subject matter, map projection, geographic extent, data owner and access information, etc.) used primarily for the purposes of cataloging and enabling the use of automated search tools to find and access available geospatial data. Does not fully document the dataset's variables, assumptions or development process that is commonly needed to guide appropriate use.~~

3. The following new section is added:

### **Appendix I – Metadata Categories and Definitions**

This document provides categories and definitions of metadata information required for State of Nebraska geospatial data layers. The minimum and complete metadata requirements and timelines for completion involve the following:

- **Minimum**, completed within six months of data origination (Minimum fields are indicated with a **bold (M)** throughout this document.)

*Minimum:* A subset of the ISO 19115-compliant metadata used primarily for the

purposes of cataloging and enabling the use of automated search tools to find and access available geospatial data. Does not fully document the dataset's variables, assumptions or development process that is commonly needed to guide appropriate use.

- Complete Metadata, optional categories, recommended to be completed within 12 months

*Complete Metadata:* Remainder of ISO 19115-compliant metadata beyond minimum as indicated throughout this document.

1. Overview

a. Item Description

- i. **(M) Title - *The name by which the resource is known.***
- ii. Thumbnail - *A small graphic file stored that graphically identifies the resource.*
- iii. Tags - *A set of terms that can be used to search for the resource.*
- iv. Summary (Purpose) - *A summary of the intentions with which the resource was developed.*
- v. **(M) Description (Abstract) - *A brief narrative summary of the resources content.***
- vi. Credits - *A recognition of those who created or contributed to the resource.*
- vii. Use Limitation - *Describes limitations affecting the fitness of use of the resource.*
- viii. Appropriate Scale Range - *The range of scales at which this resource should be used.*

b. Topics & Keywords

- i. **(M) ISO topic categories - *Identifies the primary ISO themes associated with the resources content.***

Utilities & Communication	Military & Intelligence	Boundaries	Farming
Atmospheric Sciences	Economy	Elevation	Biota
Environment	Geoscientific	Health	Society
Imagery & Base Maps	Structure	Inland Waters	Transportation
Planning & Cadastral	Oceans	Location	

- ii. Content Type - *Indicates how you can access a shared copy of the resource.*
  - iii. Keywords - *Keywords that associate the resource with a subject or topic.*
- c. Citation
- i. **(M) Title** – *Title of the map that describes the manner in which the resource is represented. Could represent years and general idea of extent such as county or city.*
  - ii. Presentation Form - *Indicates the form in which the resource is provided.*
  - iii. **(M) Date** - *Date when the resource was created, published or revised.*
- d. Citation Contacts
- i. Name - *The name of a person associated with the resource.*
  - ii. Organization - *The name of an organization associated with the resource.*
  - iii. Position - *The name of a role or position associated with the resource.*
  - iv. Role - *Identifies the association between the responsible party and the resource.*

## 2. Metadata

- a. Details
- i. **(M) File Identifier** - *A unique identifier for the metadata. Typically a GUID, or country code.*
  - ii. Parent Identifier - *Unique identifier of the dataset to which this metadata is a subset.*
  - iii. Dataset URI - *The Uniform Resource Identifier (URI) of the resource.*
  - iv. Function - *Identifies the function available at the specified URI for this resource.*
  - v. **(M) Date** - *The date when the metadata was created or updated.*
  - vi. **(M) Language** - *The primary language of the information provided in the metadata.*
  - vii. **(M) Country** - *The country of the location.*
  - viii. Character Set - *The character encoding used for the metadata. Typically UTF-8.*
  - ix. Hierarchy Level - *The hierarchical scope to which the metadata applies.*
- b. Contacts
- i. **(M) Name** - *The name of a person associated with the resource metadata.*
  - ii. **(M) Organization** - *The name of an organization associated with the resource metadata.*
  - iii. **(M) Position** - *The name of a role or position associated with the resource metadata.*
  - iv. **(M) Role** - *Identifies the association between the responsible party and the resource metadata.*

Roles can include: Resource Provider, Custodian, Owner, User, Distributor, Originator, Point of Contact, Principal Investigator, Processor, Publisher, Author, Collaborator, Editor, Mediator, Rights Holder

- v. **(M) Address – *The address for the point of contact.***
  - vi. **(M) Phone – *The primary phone number for the point of contact.***
- c. Maintenance
- i. **(M) Update Frequency - *The frequency with which the metadata is updated.***
  - ii. Next Update - *The scheduled revision date.*
  - iii. Scope - *The scope of data for which this maintenance information applies.*
  - iv. Contact - *Contact information for the individual associated with metadata maintenance.*
  - v. Maintenance Note - *Describes the specific requirements for maintaining the metadata.*
- d. Constraints
- i. General - *Describes limitations affecting the fitness of use of the metadata.*
  - ii. Legal - *Restrictions, limitations, or warnings on using the metadata. (If applicable)*
  - iii. Security - *Identifies any handling restrictions on the metadata. (if applicable)*

### 3. Resource

- a. Details
- i. Status - *The status of the resource. (Ex - Under Development, Ongoing, Completed, etc.)*
  - ii. Credit - *A recognition of those who created or contributed to the resource.*
  - iii. Language - *The language of the information used within the data.*
  - iv. Country - *The country of the location.*
  - v. Spatial Representation Type - *Identifies the method used to spatially represent geographic information. (Ex - Vector, Raster, Tin, etc.)*
  - vi. Scale/distance Resolution - *Level of detail provided by the resource, expressed as the scale of a comparable hardcopy map or chart.*
  - vii. Browse Graphic - *File name of the graphic that provides an illustration of the resource.*
  - viii. Processing Environment - *Describes the data's processing environment, including the software and operating system used, and the file name and size.*
  - ix. Supplemental Information - *Provides additional descriptive information about the resource.*
- b. Service Details
- i. Name - *A name identifying the type of service provided by the resource. (Ex - WFS)*

- ii. Codespace - *Identifies the authority (Ex - 1.0.0 or 1.1.0)*
- iii. Access Properties
  - 1. Fees - *Describes any fees or terms for obtaining resource.*
  - 2. Availability Date/Period - *The date and time when the resource will be available.*
  - 3. Ordering Instructions - *Describes instructions, terms, and services provided by the distributor.*
- c. Extents
  - i. Description - *Describes the extent of the resource. (Ex - Nebraska)*
  - ii. **(M) Bounding box - Extents expressed in decimal degrees longitude and latitude.**
  - iii. Temporal Period - *The start and end time period associated with the resources content.*
- d. Points of Contact
  - i. Name - *The name of a person associated with the resource.*
  - ii. Organization - *The name of an organization associated with the resource.*
  - iii. Position - *The name of a role or position associated with the resource.*
  - iv. Role - *Identifies the association between the responsible party and the resource.*
- e. Maintenance
  - i. Update Frequency - *The frequency with which the resource is updated.*
  - ii. Next Update - *The scheduled revision date.*
  - iii. Scope- *The scope of data for which this maintenance information applies.*
  - iv. Contact - *Contact information for the individual associated with resource maintenance.*
  - v. Maintenance Note - *Describes the specific requirements for maintaining the resource.*
- f. Constraints
  - i. General - *Describes limitations affecting the fitness of use of the resource.*
  - ii. Legal - *Restrictions, limitations, or warnings on using the resource. (If applicable)*
  - iii. Security - *Identifies any handling restrictions on the resource. (if applicable)*
- g. Spatial Reference
  - i. **(M) Dimension - Horizontal, vertical or temporal.**
  - ii. **(M) Code - An alphanumeric value that identifies an authoritative reference (WKID)**
  - iii. **(M) Code Space - An alphanumeric value that identifies an authoritative reference (Ex - EPSG)**

- iv. **(M) Version - An numeric value that identifies an authoritative reference (Ex - 8.2.6)**
- v. **(M) Authority Citation**
  - 1. **Title - The name by which the cited resource is known (Ex-NAD\_1983\_StatePlane\_Nebraska\_FIPS\_2600\_Feet)**
  - 2. **Date - The date the cited resource was created, published or revised.**
  
- h. Spatial Data Representation
  - i. Grid Spatial, Georectified, Georeferenceable, Vector or Indirect
  
- i. Content Information
  - i. Coverage description- *Identifies the information conveyed by the raster data.(if applicable)*
  - ii. Image description - *Identifies the information conveyed by the raster data.(if applicable)*
  - iii. Feature Catalogue - *Describes OGC catalogue compliance, name, codespace, language and country. (if applicable)*
  
- j. Quality
  - i. Scope Level - *Describes the specific data to which the data quality information applies.*
  - ii. Level Description - *Identifies the instance to which the information applies.*
  - iii. Extent - *Describes the extent of the resource.*
  - iv. Report
    - 1. Report Type - *Identifies the characteristic of the data whose quality was measured.*
    - 2. Dimension - *Identifies the axis to which the spatial quality information applies.*
    - 3. Description - *A description of the evaluation method.*
    - 4. Evaluation Method - *Identifies the type of method used to evaluate the quality of the data.*
  
- k. Lineage
  - i. Statement -*Provides a general description of the resource's lineage.*
  - ii. Data Source - *A detailed description of the source.*
  - iii. Process Step -
    - 1. **(M) Description - Describes the event, transformation, or process that occurred while maintaining the resource, including any parameters or tolerances that were used.**
    - 2. Rationale - *Describes why the process step occurred.*
    - 3. **(M) Date - Identifies the date when the process step occurred.**

4. Processor - *The name of a person or organization associated with the process step.*

I. Distribution

i. **(M) Distribution Format**

1. **(M) Format Name** - *The name of the data transfer format.*
2. **(M) Format Version** - *The version of the data transfer format (if applicable)*

ii. Distributor

1. Contact- *The name of a person or organization that is the distributor.*
2. Ordering Process - *Fees and availability and instructions.*
3. Distribution Format - *Format name and version.*
4. Digital transfer options- *Units and transfer size, or online resource.*

m. Fields

i. **(M) Label** - *The name of the resource.*

1. Entity Type

- a. Object - *An indication of the resource's type. (Ex. Table, feature class)*
- b. Count - *The number of objects contained by the resource.*
- c. **(M) Definition** - *A description of the features contained by the dataset.*
- d. **(M) Definition Source** - *The authority that provided the definition.*

2. **(M) Attribute (for each column)**

- a. **(M) Label** - *The name of the field. This must match the name of a column of data in the resource.*
- b. **(M) Definition** - *The description of the data contained by the field.*
- c. **(M) Definition Source** - *The authority that provided the description of the field.*
- d. **(M) Type** - *Indicates the data type used to store values in this field.*
- e. **(M) Width** - *The number of bytes that will be used to store the data in this column for one row.*

3. **(M) Domain**

- a. **(M) Value** - *Describes one of the repeating values that may occur in the field.*
- b. **(M) Definition** - *A description of the value or code stored in this field.*
- c. **(M) Source** - *The authority that provided the description of the value.*

ii. Overview

1. Summary - *A detailed summary of the information provided by the data.*

2. Citation - *A reference to the document that provides a complete description of the features, fields, and values that are provided by the resource.*

n. References

*i. Aggregate - Citation for the aggregate information.*

*ii. Portrayal Citation - The name by which the cited resource is known.*

*iii. Application Schema Information - Citation for the schema.*

o. Geoprocessing History

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Current version: <http://nitc.nebraska.gov/standards/3-201.html>

Attachment 5-f-iii-2  
**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

Project: <b>Network Nebraska Education</b>		Contact: <b>Tom Rolfes</b>				
Start Date	05/01/2006	Orig. Completion Date	06/30/2012	Revised Completion Date	08/10/2016	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>Network Nebraska-Education is a statewide consortium of over 260 K-12 and higher education entities working together to provide a statewide backbone, commodity Internet, distance education, and other value-added services to its participants. Network Nebraska-Education is managed by the State Office of the CIO partnering with the University of Nebraska Computing Services Network (UNCSN).</p> <p>Project Budget (2015-16): \$702,894 (\$759,244 has been expended, \$56,738 over budget (108%))</p>						
<b>Status Report</b>						
<p><b>June update:</b>  Six (6) new entities are expected to join Network Nebraska-Education prior to 8/10/2016. Minor risks and issues are addressed by the executive sponsors at the monthly CAP meetings.</p> <p>State of Nebraska RFP 5153 was released on 10/23/2015 as the largest telecommunications RFP in the history of the State of Nebraska. Bid opening occurred on 12/18/2015 and included 226 circuits for K-12, 20 circuits for higher education, 98 circuits for UNL Extension, and 3 circuits for the Nebraska Game &amp; Parks Commission. Intents to Award Contract were issued on January 13, 2016 (delayed 20 days). <b>As of May 25, all 13 provider contracts had been posted, a delay of over 60 days from expected.</b> A separate RFI and RFP for the statewide backbone will follow the WAN circuit upgrade in late summer, early fall, 2016. The RFP will include the four segments of the leased backbone. For 2016-17, existing backbone contracts will be renewed/extended. Lincoln City Libraries went live with fiber access to Network Nebraska in late March and their Internet purchase was initially 500Mbps. Commodity Internet orders for 2016-17 were collected from K-12 and higher education entities and total orders increased by 44% over 2015-16.</p> <p>The delay in finalizing and posting the 13 provider contracts related to RFP 5153 caused angst among many K-12 school districts as they prepared to do their federal E-rate filing before the May 26, 2016 extended deadline. The Office of the CIO will want to review RFP terms and conditions and whether alternate language can be constructed to make future years' procurements and contracting more expedient.</p>						
<p><b>Additional Comments/Concerns:</b>  The 2015-16 Participation Fee Budget has been pasted into the above table. The 2015-16 3<sup>rd</sup> quarter UNCSN invoice was submitted on April 28, 2016 by UNCSN Accounting and has been paid. With three quarters (75%) of the year consumed, the 2015-16 Participation Fee budget has already reached <b>108%</b> of budgeted expenditures primarily due to the unanticipated purchase of two high bandwidth traffic shapers. Seven subcategories of expenditures have exceeded their categorical estimates and the project is already over budget for the year by \$56,738. The Network Nebraska project has a positive variance in its state account in excess of \$300,000 to absorb this overage. The 4th quarter UNCSN invoice should be arriving from UNCSN by late June.</p> <p>Even though the Chief Information Officer fulfilled the Legislative benchmark of "providing access (the ability to connect) to every public K-12 and public higher education entity at the earliest date and no later than July 1, 2012" [Neb. Rev. Stat. 86-5,100], the NITC Technical Panel has extended the enterprise project designation for Network Nebraska-Education until 8/1/2016 so that all public school districts that want to participate have actually connected.</p>						

**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

<b>Project:</b>	<b>Nebraska State Accountability (NeSA)</b>			<b>Contact:</b>	<b>John Moon</b>	
Start Date	07/01/2010	Orig. Completion Date	06/30/2011	Revised Completion Date	6/30/2016	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						

**Project Description**

Legislative Bill 1157 passed by the 2008 Nebraska Legislature required a single statewide assessment of the Nebraska academic content standards for reading, mathematics, science, and writing in Nebraska’s K-12 public schools. The new assessment system was named Nebraska State Accountability (NeSA), with NeSA-R for reading assessments, NeSA-M for mathematics, NeSA-S for science, and NeSA-W for writing. The assessments in reading and mathematics were administered in grades 3-8 and 11; science was administered in grades 5, 8, and 11; and writing was administered in grades 4, 8, and 11.

Project Estimate: \$7,278,025 (\$3,386,015.34 has been expended)

**Status Report**

**June update:**

During the first week of June Nebraska teachers wrote items for math and ELA to be field tested in 2017 and used on the operational tests in 2018. Score resolution will be conducted by NDE starting on June 13<sup>th</sup>. During the score resolution process Districts are contacted for all issues with NeSA-RMS results. On July 13<sup>th</sup>, districts will be provided with preliminary NeSA-RMS reports and data files. Districts have until August 8<sup>th</sup> to submit any data corrections for NeSA-RMS results.

On June 3, 2016, the State Board of Education directed NDE to not administer NeSA-Writing assessments in 2016-2017 for all three grades in addition the Board decided to forgo testing of grade 11 NeSA-ELA, Math, and Science in 2016-2017. A reduced contract is being negotiated with DRC. Three issues with the NeSA-writing resulted in an outage of NeSA testing on January 21 and 27 along with an outage of the Dictionary/Spellcheck tool on January 28.

**April update:**

Test setup for eDIRECT was available to districts on February 22<sup>nd</sup> through May 6<sup>th</sup> for NeSA-RMS. The reading, math, and Science operational test window began on March 21<sup>st</sup> and will be completed by May 6<sup>th</sup>. NeSA-RMS administration training was conducted on February 16<sup>th</sup> and 17<sup>th</sup>. Score resolution will be conducted by NDE starting on June 13<sup>th</sup>. During the score resolution process Districts are contacted for all issues with NeSA-RMS results. On July 13<sup>th</sup>, districts will be provided with preliminary NeSA-RMS reports and data files. Districts have until August 8<sup>th</sup> to submit any data corrections for NeSA-RMS results.

**Additional Comments/Concerns:**

July 2015 - Nebraska State Accountability (NeSA) is a statewide assessment system mandated by Nebraska Statute. Nebraska Department of Education has contracted with Data Recognition Corporation (DRC) to continue the development of the assessment system including management, development, delivery, administration, scanning/imaging, scoring, analysis, reporting, and standard setting for the online and pencil/paper reading, science, writing, and mathematics tests (NeSA-RMS) for July 1, 2015 through June 30, 2016. DRC will facilitate the delivery, administration, scanning/imaging, scoring, analysis, and reporting for the alternate pencil/paper reading, science, and mathematics tests during the same assessment window. During January 18 through February 5, 2016, DRC will deliver the online writing assessment (NeSA-W) for grades 8 and 11 and the pencil/paper writing assessment for grade 4 as well. The testing window for NeSA-RMS and NeSA-AA will start on March 21 and end on May 6, 2016.

**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

<b>Project: Nebraska Regional Interoperability Network (NRIN)</b>		<b>Contact: Sue Krogman</b>				
Start Date	10/01/2010	Orig. Completion Date	06/01/2013	Revised Completion Date	09/30/2016	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>The Nebraska Regional Interoperability Network (NRIN) is a project that will connect a majority of the Public Safety Access Points (PSAP) across the State by means of a point to point microwave system. The network will be a true, secure means of transferring data, video and voice. Speed and stability are major expectations; therefore there is a required redundant technology base of no less than 100 mbps with 99.999% availability for each site. It is hoped that the network will be used as the main transfer mechanism for currently in-place items, thus imposing a cost-saving to local government. All equipment purchased for this project is compatible with the networking equipment of the OCIO.</p> <p>Project Estimate: \$10,820,003 (\$8,915,330.26 has been expended)</p>						
<b>Status Report</b>						
<p>NEMA is struggling with issues of governance and maintenance of the network. Governance would be needed at the local jurisdiction and not at the state agency (there is no state agency is heading the project, it's all run at the local jurisdiction). There is no formal governance heading the project.</p> <p><b>June update:</b>          South Central area between GI and Lexington is being completed – should be on-line within a month. All materials from the Lincoln warehouse have been moved to their perspective Regions. Meeting is scheduled with contractor for this week to discuss remainder of FY2014 grant.</p> <p><b>April update:</b>          Lincoln Dispatch to Nebraska City is complete and has been tested. Materials are being moved out of the SE Regional warehouse to Grand Island and to Nemaha County. Work is slow due to a limited amount of grant funding. FCC filings are taking 30-45 days and some materials are 4-6 weeks out.</p> <p><b>Additional Comments/Concerns:</b>          It's possible that upcoming target dates might be missed. Based on the uncertainty of the infrastructure needed for the project and the time involved in obtaining the environmental approvals to proceed with the project, any target dates are fluid. Delays are inevitable due to the weather over the winter months and the difficulty in locating adequate tower sites and negotiating leasing agreements and/or MOU's.</p> <p>New grant dollars are in effect until August of 2016.</p>						

**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

Project: <b>Medicaid Management Information System Replacement Project (MMIS)</b>	Contact: <b>Don Spaulding</b>					
Start Date	7/01/2014	Orig. Completion Date	TBD	Revised Completion Date	N/A	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>Nebraska’s current Medicaid Management Information System (MMIS) has supported DHHS Medicaid operations since 1977. Medicaid is an ever-changing environment where program updates occur quickly. The need for access to data is increasing and technological enhancements are necessary to keep pace with program changes. Recognizing the need to implement new technology, and with the support of the Legislature, DHHS embarked on the planning phase for replacement of MMIS functionality.</p> <p>Project Estimates: \$113,600,000* (\$4,571,755 have been expended)            *Planning Expenditures include 7/01/2014 – 12/29/2016. Estimate is a rough order magnitude estimate based on information available. As the procurements are completed, categorical details will be available.</p>						
<b>Status Report</b>						
<p><b>June update:</b>            The updated Data Management and Analytics (DMA) RFP is approved by all stakeholders, including DAS and CMS. The Independent Verification and Validation (IV&amp;V) RFP proposals have been received and are being evaluated. The funding request for implementation (IAPD) has received CMS approval. NOTE: Current planning activities are funded under an approved CMS PAPD.</p> <p><u>Key Accomplishments since Last Report:</u></p> <ul style="list-style-type: none"> <li>• DMA RFP was approved by CMS and DAS.</li> <li>• DMA RFP was released on 06/01/2016.</li> <li>• IAPD funding request was approved by CMS.</li> </ul> <p><u>Upcoming Activities this reporting period:</u></p> <ul style="list-style-type: none"> <li>• DMA evaluation process and materials are being developed.</li> </ul> <p><b>April update:</b></p> <ul style="list-style-type: none"> <li>• The Draft Data Management and Analytics (DMA) RFP has been updated based on the vendor comment review process.</li> <li>• The updated RFP and funding request (IAPD) has been submitted to CMS for approval.</li> <li>• The Independent Verification and Validation (IV&amp;V) RFP was released on March 29, 2016</li> </ul> <p><b>Additional Comments/Concerns:</b>            Many state resources are not full-time on the project and have other duties including other Legislative mandates to implement which may have a higher priority than this project. Funding for the project is 90% federal funding and 10% state funding.</p>						

**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

Project: <b>District Dashboards</b>						Contact: <b>Dean Folkers</b>
Start Date	07/01/2013	Orig. Completion Date	06/30/2015	Revised Completion Date	06/30/2016	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>Made possible by a Statewide Longitudinal Data System (SLDS) grant from the United States Department of Education in 2012, the focus of the Nebraska Ed-Fi Dashboard initiative is to provide readily available data to the Nebraska classrooms to facilitate informed decision-making. Potential users include teachers, counselors, and administrators. NDE intends to leverage the Ed-Fi dashboard solution made available by the Michael &amp; Susan Dell Foundation to provide Nebraska with an advanced student performance dashboard system to be customized for Nebraska needs. The Ed-Fi data standard will serve to define the initial data elements powering the Nebraska Ed-Fi dashboard.</p> <p>Our Plan of Work for design, development, and piloting of the Nebraska Dashboards will commence in three phases, each to proceed subsequently upon successful completion of the previous phase, between the months of September 2013 and December 2014. The phases include: Phase I - Dashboard Readiness (September 2013-February 2014), Phase II – Dashboard Development (February 2014-June 2014), and Phase III – Dashboard Deployment (June 2014-December 2014).</p> <p>Project Estimate: \$466,623.75 has been expended, grant funds only</p>						
<b>Status Report</b>						
<p><b>June update:</b></p> <p>The contract end date was extended until 6/30/2016 to align with the end of the grant period. Currently we have six pilot districts and 12 Early Adapter Program (EAP) districts running in production. The Phase II Early Adopter Program has started and around 80 districts are participating. The team is wrapping up the dashboard pilot testing with the six PowerSchool pilot districts and 12 EAP districts. Certification testing of Infinite Campus Phase II development continues with NDE/DLP and McCook pilot district. NDE and DLP have been holding regular knowledge transfer sessions for the Accountability Data Mart (ADM) and pilot testing of the ADM implementation is in progress.</p> <p>Validation of data loaded to DWH and ADM will be delayed due to resource constraints. Creation of reports for accountability pilot testing is delayed. Pilot test of the dashboard will continue until the end of June. Pilot testing of the DWH/ADM continues until the end of June. Associated knowledge transfer for DWH/ADM continues thru June. NDE is still in the process of realigning staff responsibilities or hiring additional staff to provide the resource capacity for statewide rollout and long term maintenance. ESUCC staff is shared between multiple projects and therefore availability and allocation varies.</p> <p>Creating an NSSRS migration strategy and plan for statewide rollout. Target timeline has been identified. Team working on detailed migration plan.</p>						

**Nebraska Information Technology Commission**  
**Enterprise Project Status Dashboard – as of June, 2016**

Project: <b>Medicaid Eligibility &amp; Enrollment System</b>	Contact: <b>Don Spaulding</b>					
Start Date	10/28/2014	Orig. Completion Date	06/30/2016	Revised Completion Date	06/30/2017	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>The Affordable Care Act (ACA) included numerous provisions with significant information systems impacts. One of the requirements was to change how Medicaid Eligibility was determined and implement the changes effective 10/1/2014. As a result of the lack of time available to implement a long-term solution, the Department of Health and Human Services implemented a short-term solution in the current environment to meet initial due dates and requirements. This solution did not meet all Federal technical requirements for enhanced Federal funding but was approved on the assumption that a long-term solution would be procured. An RFP was developed and procurement has been completed with Wipro selected as the Systems Integrator for an IBM/Curam software solution.</p> <p>Project Estimate: \$57,741,564 (\$21,301,064 has been expended)</p>						
<b>Status Report</b>						
<p><b>June update:</b></p> <p>The Nebraska Eligibility and Enrollment Solution (NE EES) project entered the design phase. Stakeholders from the state are participating in Joint Application Design (JAD) sessions with the system integrator (SI), Wipro. JAD sessions are being conducted for both business and technical design. Organizational Change Management (OCM) activities have begun in parallel with design activities to determine the organizational impact to changes the EES will bring to the Division of Medicaid and Long Term Care.</p> <p>With the conclusion of the requirements phase, the project team evaluated remaining work to be completed on the project and recommended the go live date be moved from March of 2017 to the fourth quarter of 2017. The Steering Committee accepted the project team’s recommendation.</p> <p><u>Key Accomplishments since Last Report:</u></p> <ul style="list-style-type: none"> <li>• Project has concluded the requirements phase and moved into the design phase.</li> <li>• Further development of the Integrated Master Schedule (IMS) project plan.</li> <li>• Submitting most recent project documents to CMS with details around the project phases and revised timeline.</li> </ul> <p><u>Upcoming Activities this reporting period:</u></p> <ul style="list-style-type: none"> <li>• State stakeholder engagement in design JAD sessions for interfaces, data conversion, data synchronization, business eligibility rules and major business processes.</li> <li>• Continued refinement of IMS.</li> </ul> <p><b>Additional Comments/Concerns:</b></p> <p>Many state resources are not full-time on the project and have other duties including other Legislative mandates to implement. The vendor is having difficulty filling key roles on the project and does not have enough people on the project to support current work plan. The vendor is taking steps to hire additional resources.</p>						

## Nebraska Information Technology Commission Enterprise Project Status Dashboard – as of June, 2016

The project(s) listed below are reporting voluntarily and is not considered as an Enterprise Project by the NITC.

Project: <b>AFIS Upgrade Project</b>	Contact: <b>Tony Loth</b>					
Start Date	09/09/2015	Orig. Completion Date	11/30/2016	Revised Completion Date	TBD	
	June	April	February	January	December	November
Overall Status						
Schedule						
Budget						
Scope						
Quality						
<b>Project Description</b>						
<p>Nebraska’s AFIS (Automated Fingerprint Identification System) is the Nebraska fingerprint database. The system is used as a repository for all criminal and non-criminal fingerprint records for the state of Nebraska. For criminal purposes the system biometrically connects an individual’s criminal arrest record to a specific individual. For non-criminal purposes, the system is used for the purpose of conducting fingerprint-based background for employment or licensing purposes. Due to rapidly improving technology and hardware lifespan, it is necessary to upgrade AFIS approximately every 5-8 years.</p> <p>This upgrade will include the following major components:</p> <ol style="list-style-type: none"> <li>1. Upgrading the existing biometric identification software platform from Printrak 9.7 platform to the new and improved MorphoBIS platform.</li> <li>2. Replacement of eight (8) existing tenprint workstations and seven (7) latent workstations that will not be compatible with the MorphoBIS software.</li> <li>3. Replacement of backend servers that were not replaced during Phase I of the upgrade.</li> </ol> <p>Project Estimate: \$1,997,000 (\$829,000 has been expended)</p>						
<b>Status Report</b>						
<p><b>June update:</b></p> <p>The project is back on track on the revised schedule that was updated following the decision to delay Factory Acceptance Testing (FAT). The Acceptance Test Plan has been completed and approved by NSP and it was critical that this be done prior to FAT. FAT will begin Monday, June 6 and conclude on or before Friday, June 17.</p> <p><u>Key Accomplishments since Last Report:</u></p> <ul style="list-style-type: none"> <li>• The Acceptance Test Plan has been completed.</li> <li>• FileBound API training has been scheduled for June 21.</li> </ul> <p><u>Upcoming Activities this reporting period:</u></p> <ul style="list-style-type: none"> <li>• Factory Acceptance Testing will begin on June 6 and conclude on June 17.</li> </ul> <p><b>April update:</b></p> <p>Despite significant effort to maintain the project timeline, we have run into our first major delay. NSP provided a significant amount of feedback to the Acceptance Test Plan and much of that feedback required additional clarification to the requirements set forth in the Requirements Definition Document. These clarifications led to additional programming. As a result, MorphoTrak was unable to be ready for the Factory Acceptance Testing (FAT) as originally scheduled for the end of April/first week of May. FAT was pushed back to June 6-17 which impacted the entire project timeline by six weeks.</p> <p><u>Key Accomplishments since Last Report:</u></p> <ul style="list-style-type: none"> <li>• Initial review of the Acceptance Test Plan has been completed.</li> </ul>						

## **Nebraska Information Technology Commission Enterprise Project Status Dashboard – as of June, 2016**

- Testing of data files for PCH integration is ongoing.

Upcoming Activities this reporting period:

- PCH integration testing continues.
- Final review of the ATP.
- Factory Acceptance Testing is scheduled for June 6-17.
- Training for the FileBound API.

<b>Color Legend</b>		
	Red	<b>Project has significant risk to baseline cost, schedule, or project deliverables. Current status requires immediate escalation and management involvement.</b> Probable that item will <b>NOT</b> meet dates with acceptable quality without changes to schedule, resources, and/or scope.
	Yellow	<b>Project has a current or potential risk to baseline cost, schedule, or project deliverables. Project Manager will manage risks based on risk mitigation planning.</b> Good probability item will meet dates and acceptable quality. Schedule, resource, or scope changes may be needed.
	Green	<b>Project has no significant risk to baseline cost, schedule, or project deliverables.</b> Strong probability project will meet dates and acceptable quality.
	Gray	<b>No report for the reporting period or the project has not yet been activated.</b>