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OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received: 08/14/2009

4. Applicant Identifier:

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Connected Nation, Inc.

* b. Employer/Taxpayer Identification Number (EIN/TIN): 61-1394934

* c. Organizational DUNS: 086130007

d. Address:

* Street1: 1020 College Street
Street2: P.O. Box 3448
* City: Bowling Green
County: Warren
* State: KY: Kentucky
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 42102-3448

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr.
* First Name: Brent
Middle Name:
* Last Name: Legg
Suffix:

Title: Vice President of State Development

Organizational Affiliation:

* Telephone Number: 270-781-4320
Fax Number: 270-781-7611

* Email: blegg@connectednation.org

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

M: Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Department of Commerce

11. Catalog of Federal Domestic Assistance Number:

CFDA Title:

*** 12. Funding Opportunity Number:**

0660-ZA29

* Title:

Recovery Act - State Broadband Data and Development Grant Program

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

State of Iowa

*** 15. Descriptive Title of Applicant's Project:**

State Broadband Data and Development Grant Program for the State of Iowa.

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

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OMB Number: 4040-0004
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Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant: KY-003 * b. Program/Project: IA=all

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: 09/30/2009 * b. End Date: 09/30/2014

18. Estimated Funding ($):

* a. Federal	5,114,415.00
* b. Applicant	371,037.00
* c. State	504,502.00
* d. Local	0.00
* e. Other	431,949.00
* f. Program Income	0.00
* g. TOTAL	6,421,903.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

☐ Yes ☒ No Explanation

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: Mr. * First Name: Brian

Middle Name:

* Last Name: Mefford

Suffix:

* Title: Chairman & CEO

* Telephone Number: 877-846-7710 Fax Number: 270-781-7611

* Email: bmefford@connectednation.org

* Signature of Authorized Representative: Brian Mefford * Date Signed: 08/14/2009

Authorized for Local Reproduction

Standard Form 424 (Revised 10/2005)
Prescribed by OMB Circular A-102

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

PROJECT ABSTRACT

This application, submitted on behalf of the state of Iowa, seeks to employ industry-standard GIS toolsets and experienced personnel to deliver comprehensive and accurate broadband mapping data, develop state-level broadband maps, aid in the development and maintenance of a national broadband map, and fund statewide initiatives directed at broadband planning, in accordance with the National Telecommunications and Information Administration's (NTIA) Notice of Funding Availability (NOFA) for the State Broadband Data and Development grant program (SBDD).

The ensuing suite of deliverables will include datasets as required by the NTIA as well as web-based, interactive broadband maps to inform state and local government officials, consumers, broadband providers, community development organizations, researchers, and other stakeholders. This interactive website will be critical to ensure accessibility of the broadband data, but it will also be key to increasing awareness of the mapping program and the benefit of broadband. It will also play an important role in ensuring local verification of the mapping data.

In compliance with the NOFA, Connect Iowa will facilitate the mapping project under the strictest of secure protocols for data collection and analysis. In particular, Connect Iowa will be carrying out this mission in the most secure and confidential manner to maintain full compliance with the confidentiality standards called for in the NOFA. The scope of this project will span five (5) years and in accordance with the following timeline:

November 1, 2009	Delivery of preliminary data, as available at that time.
February 1, 2010	Delivery of a substantially complete set of broadband mapping data.
March 1, 2010	Delivery of a complete set of all broadband mapping data.
September 1, 2010	Commence with Semi-Annual updates through 2014.

As called for according to the NOFA guidelines, Connect Iowa will collect and provide to the NTIA the required datasets as proscribed in *Technical Appendix A and its subsequent amendments.* This data collection will inform the construction of a national broadband map to be developed and maintained by the NTIA.

The state of Iowa and Connect Iowa will continue to work closely to ensure a tightly integrated state strategy for effective grant program implementation.

State Broadband Data and Development Grant Program
Program Narrative

INTRODUCTION/EXECUTIVE SUMMARY

This application, submitted on behalf of the state of Iowa, seeks to employ industry-standard GIS toolsets and experienced personnel to deliver comprehensive and accurate broadband mapping data, develop state-level broadband maps, aid in the development and maintenance of a national broadband map, and fund statewide initiatives directed at broadband planning, in accordance with the National Telecommunications and Information Administration's (NTIA) Notice of Funding Availability (NOFA) for the State Broadband Data and Development grant program (SBDD).

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September 1, 2010	Commence with Semi-Annual updates through 2014.

As called for according to the NOFA guidelines, Connect Iowa will collect and provide to the NTIA the required datasets as proscribed in *Technical Appendix A and its subsequent amendments.* This data collection will inform the construction of a national broadband map to be developed and maintained by the NTIA.

The state of Iowa and Connect Iowa will continue to work closely to ensure a tightly integrated state strategy for effective grant program implementation.

Description of Unserved and Underserved/Prioritization of Grant Funds
Because the purpose of this project is to collect data and produce a GIS map of broadband availability across the state of Iowa, it is not yet possible to include a definitive, comprehensive description of unserved and underserved areas in Iowa, as those areas will be identified throughout the course of this project. However, in advance of a comprehensive

description and GIS analysis of coverage gaps, Iowa can rely on data that it obtained through an Iowa Utilities Board statewide survey—the results of which were published in a report entitled Assessing High-Speed Internet Access in the State of Iowa: Sixth Assessment," which was released January 28, 2008. The survey results were derived using facilities-based and wireless Internet service provider responses to survey questions. Responses from Satellite Internet Service Providers were excluded. The communities listed below in bold print had an Internet service provider as of June 30, 2007, but that provider did not offer Internet service with speeds greater than 512 kbps. The remaining communities listed above had no facilities-based or wireless internet service provider as of June 30, 2007.

Unserved Iowa Communities			
Abingdon	Colwell	Kesley	Paris (Bunch)
Allendorf	**Cooper**	Keywest	Perkins
Amber	Cornelia	**Killduff**	Pilot Grove
Andover	Cornell	**Kiron**	Pioneer
Andrew	Eldorado	Koszta	Plainview
Austinville	Elkport	Lacey	**Reasnor**
Avon	Elvira	Lakewood	Rising Sun
Bassett	Emeline	Langworthy	Rodman
Batavia	Enterprise	Littleport	Roselle
Beaver	Esmann Island	Luton	Rossie
Berkley	Fairview	Manawa	Saint Benedict
Bethlehem	Faulkner	Maple Hill	Saint Joseph
Boyer	Frankville	Maple River Junction	Sandyville
Brazil	Freeport	Maysville	Saratoga
Bremer	Fulton	Meyer	Saylorville
Brooks	**Galesburg**	Middleburg	**Searsboro**
Buckingham	Gruver	Mitchell	Selma
Canton	Guss	Montgomery	Shipley
Carl	Hanover	Montpelier	Sinclair
Carmel	Hansell	Mount Carmel	Spring Hill
Carnarvon	**Hastings**	Nashville	**Stout**
Cedar	Haven	Newkirk	Sulphur Springs
Center Grove	Hayfield	**North Buena Vista**	Tara
Center Junction	Horton	Oakdale	**Teeds Grove**
Centralia	Hurstville	Oakley	Toeterville
Chatsworth	Hutchins	**Olin**	Triboji Beach
Churchville	Ira	Oneida	Truesdale
Cleves	Irving	Osterdock	Valeria
Clio	Irvington	Ottosen	Ware
Cloverdale	James	Owasa	Willey
Columbia	Juniata	Palmyra	Woodland

Over the course of the project, Connect Iowa and the state of Iowa will work closely to identify specific coverage gaps using GIS and prioritize unserved and underserved areas

within Iowa. To maximize the effectiveness and cohesiveness of this tight working relationship, the joint project team will employ Broadband STAT, a cost efficient and open access GIS solution for broadband mapping, accessibility, and analysis that will enable the state of Iowa to fully use and analyze the broadband data, maps, and models in association with a host of other GIS data. The Broadband STAT solution will enable a comprehensive understanding of the Iowa broadband landscape and efficient prioritization of unserved and underserved areas, as defined by NTIA, and based on criteria specifically designed by the state of Iowa.

REVIEW CRITERIA

1. DATA (30%)

a. DATA GATHERING

According to data compiled by Connected Nation from the FCC, state, and other data sources, we estimate that there are 400 broadband providers in the state of Iowa. This is a significant amount of providers with whom Connect Iowa, working on behalf of the state of Iowa, must individually establish a legal relationship, a data transfer and data updating protocol, data analysis, and a verification and approval process in order to meet the goals set by the NTIA mapping program. Thanks to Connected Nation's experience mapping multiple states with a large number of providers, we have learned what it takes to get the program done and are confident we can deliver by the delivery dates specified in the Mapping NOFA.

Connected Nation's longstanding relationship as a trusted mapping partner with broadband providers places us in a unique position to deliver accurate and timely maps in the state of Iowa. Connected Nation has established mapping relationships with over 340 broadband providers, including the largest providers in the nation, many of which serve the broadband needs of Iowa's citizens and businesses. Additionally, Connected Nation has a strong relationship with the major telecommunications and cable associations in the country who have been instrumental in reaching smaller, single-state telecommunications and cable providers with whom we do not have an established relationship. The following national trade associations are members of Connected Nation's Board of Directors: USTelecom, National Cable and Telecommunications Association, CTIA (the Wireless Association). Connected Nation is a member of WCAI and has informal collaborative relationships with OPASTCO and the National Telecommunications Cooperative Association, which represent hundreds of small corporate and cooperative providers across the country.

Connected Nation works collaboratively on a daily basis with ESRI, the world leader in GIS solutions, to develop the most innovative broadband mapping solutions for comprehensive and granular broadband mapping within a timeframe that most would deem impossible. Using ESRI's ArcGIS Server and its API mapping technologies alongside the broadband data continuously gathered by Connected Nation, the two organizations work in partnership to provide states and the federal government with broadband mapping solutions that have won acclaim across the world.

Connected Nation is prepared to leverage all of these existing relationships to ensure that the state sponsor and the program itself quickly identify and establish relationships with key players in the broadband market in Iowa.

Connected Nation's mapping process begins with a street-level inventory of broadband offerings in a community. This information is collected directly from broadband providers, who voluntarily collaborate with Connected Nation through a one-on-one dialogue to ensure their service offerings are accurately represented on the map. This collaborative process is important and extensive because in our mapping experience we have learned that different broadband providers house data in a multitude of ways based on the type of technology used, the sophistication of each provider's storage system, and the resources available. Given this reality, we have found it is impossible to achieve a highly detailed, street level broadband map through a standardized, rigid, one-size-fits-all data collection process. For example, we have learned that most providers do not have address-level availability information stored in a systematized format that Connected Nation could readily use to generate a map.

In order to adapt to this reality, Connected Nation developed a flexible process of working directly with each provider on the ground to understand what technology has been deployed and how data is stored. This dialogue explores each carrier's network structure and the particular technology in place. Connected Nation then helps providers to gather and/or identify data, contextualize the data in accordance with geography and topography and translate these data into a GIS format.

To that end, Connected Nation defines a strategy for each provider and platform to determine how to translate any limited network information into preliminary GIS format. Connected Nation works on the ground directly with providers to identify equipment locations and geographical coordinates, understand network variables and topography/terrain constraints, and run tests to determine which households and businesses have broadband service available from that particular provider and which do not. The goal of this iterative process is to obtain a "first approximation" of the service territory for each provider using wireless and/or wireline technologies. Connected Nation produces a GIS shapefile for each provider, which is then shared with the individual provider for approval. Once the provider ascertains that our service territory estimate is indeed accurate, the information is added to the aggregate broadband inventory map for the state. This process is repeated for each provider until we obtain a comprehensive statewide depiction of available broadband by platform.

This data gathering protocol produces a comprehensive, granular, accurate inventory of the broadband landscape within a state. Such base layer data allows Connected Nation to produce detailed broadband inventory maps that provide state-wide data layers, by type of platform, as specified by the NTIA. The maps will be available online in interactive mode that will allow access by various data layers that may include the street, census block, census block group, census tract, legislative boundary, city boundary, county boundary or tribal boundary levels. The above process only relates to the broadband infrastructure component of Connected Nation's maps. Importantly, however, Connected Nation's maps also include information from Connected Nation local consumer and business surveys in order to understand broadband adoption, computer ownership, and the barriers to broadband and computer adoption in each community and local area. Additionally, data from various sources including the U.S. Census

Bureau, ESRI and other Connected Nation partners, and state GIS departments are used to analyze topographic, demographic, and relevant civil infrastructure information. These data typically include information such as household density and other demographics in unserved areas; potential collocation resources such as cell towers and water tanks; the proximity of community institutions such as libraries, schools, and hospitals; and proposed infrastructure such as roads, water projects, and sewer lines.

It is important to note that providers are not required to file data with Connected Nation or any state agency. Connected Nation is a not-for-profit corporation that operates pursuant to grants from state governments or the federal government. Because of this public-private partnership model, confidentiality of sensitive provider data is maintained. This legal construct encourages service providers to willingly collaborate with the mapping program and help the state determine, in detail, both the broadband gaps and the particular challenges to deploying broadband in a particular area. The Non-Disclosure Agreements that Connected Nation will execute with Iowa broadband providers will satisfy all requirements outlined in the NTIA SBDD NOFA.

As a result, while broadband provider confidentiality is preserved, the output of Connected Nation's maps is highly detailed and granular. This granular, rich data provides critical information for the development of sound public policy and network expansion business plans, including detailed descriptions of household density and relevant demographic and economic information about unserved areas.

As part of the mapping program in Iowa, Connected Nation will communicate and coordinate with NTIA to ensure that NTIA's technical specifications are being followed so that the Iowa inventory map can be rolled up into the nationwide inventory map by February 2011. These technical specifications have not yet been made public. Once they do, Connected Nation, working collaboratively with our strategic partner ESRI, will develop the necessary tools and processes to meet these specifications.

Connected Nation will process and analyze provider data collected in order to fulfill the reporting requirements specific in the *Technical Appendix A* of the NTIA Mapping NOFA, including:

1. **Broadband Service Availability in Provider's Service Area**
   (a) Availability by Service Address-Service Associated with Specific Addresses and
   (b) Availability by Shapefile--Wireless Services not Provided to a Specific Address

Connected Nation has read, understands and will fully comply with this requirement and record format, in accordance with the NOFA and its clarification. After Connected Nation works with providers to gather the relevant network infrastructure data, process the data into GIS format, and verify with each provider that the resulting GIS file is an accurate representation of that provider's broadband service territory and capabilities, Connected Nation will then compare the geographic broadband footprint and associated data against address files and Census Bureau data to produce census block level or address level records for each fixed broadband provider, in accordance with the NOFA and its clarification. For mobile networks, Connected Nation will translate wireless data through propagation studies

into GIS shapefiles for submission to the NTIA in association with the data required in the NOFA and its clarification.

In accordance with the NOFA clarification, Connected Nation will collect advertised up- and downstream speeds from providers and report it at the Metropolitan or Rural Statistical Area. Further, in accordance with the NOFA clarification, Connected Nation will obtain data for "Typical Upstream and Downstream Speeds" from two complementary methods: statistical sampling and online consumer speed test data.

2. Residential Broadband Service Pricing in Provider's Service Area

Connected Nation has read, understands, and will fully comply with this requirement and record format, in accordance with the NOFA and the NOFA clarification. The information needed to fulfill these reporting requirements will be collected directly from providers based on advertised speeds and number of subscribers. In the cases where this is not possible, Connected Nation will gather primary data on advertised speeds and analyze it in combination with data from online consumer speed tests in order to generate an estimated weighted average speed.

3. Broadband Service Infrastructure in Provider's Service Area

Connected Nation has read, understands, and will fully comply with this requirement and record format, in accordance with the NOFA and its clarification. Connected Nation will gather data on middle-mile and backbone interconnection points directly from providers to the extent necessary for producing the required data and for verification purposes, in accordance with the NOFA and its clarification.

4. Community Anchor Institutions

Connected Nation has read, understands, and will fully comply with this requirement and record format, in accordance with the NOFA and its clarification. Connected Nation will compile, process and geocode private and public data sources in order to meet the reporting requirements defined by NTIA. Connected Nation proposes to work with the GIS state agencies and health, public education, and other relevant state agencies and private stakeholders to identify existing databases documenting Community Anchor Institutions as defined in the *Technical Appendix A* of the NTIA Mapping NOFA. Such information will complement datasets obtained by Connected Nation, such as the state's broadband availability inventory, in order to produce a statewide comprehensive database of community anchor institutions in the State and their broadband capabilities. To complement these datasets, Connected Nation will conduct a survey of all community anchor institutions to gather information regarding broadband subscription, technology type and speeds. Subject to any confidentiality constraints, Connected Nation will upload all the data onto the interactive broadband maps, in order to provide policymakers and the general public a pragmatic tool for understanding the broadband resources available to these anchor institutions and – importantly – ascertain where the broadband infrastructure challenges to reach these institutions remain.

b. ACCURACY AND VERIFICATION

Source data verification is a critical component of Connected Nation's broadband inventory mapping programs. Broadband inventory maps represent a visual, geographic estimation of broadband coverage within a state or territory. As such, maps are an estimation of the true

extent of the network and, hence, present inaccuracies that can only be identified and corrected as the data is used, analyzed, and verified. Data verification is, therefore, a critical component of any effective mapping program. Connected Nation employs and promotes a number of mechanisms to ensure the accuracy of broadband maps:

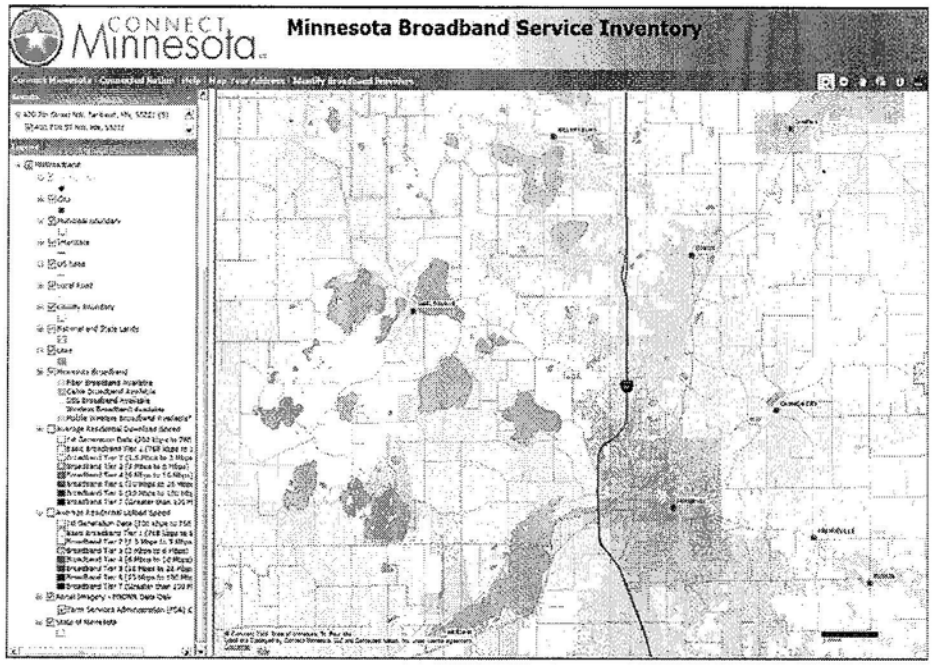
- Connected Nation engineers conduct extensive field tests, and the results of those tests are documented and compared against provider data to ensure accuracy. In instances where a discrepancy is identified (e.g. a datum shift of coordinates), Connected Nation immediately contacts the agency or provider to outline and implement corrective actions. Connected Nation conducts random quality control checks to validate the latitude/longitude of infrastructure such as digital subscriber line access multiplexers (DSLAMs), broadcast towers, and other vertical assets such as water towers. Quality control checks are also conducted via spectrum analyzer to verify the frequencies being used by known unlicensed WISPs or licensed providers. Additionally, speed tests are conducted from the field using all known platforms (e.g. fiber, cable modem, DSL, fixed wireless, mobile wireless, etc.).
- In addition to internal field tests, Connected Nation establishes in every state mapping program a transparent system for external verification of broadband availability data. This verification system includes a web-based, interactive mapping portal where consumers, local leaders, broadband providers, and other stakeholders can analyze broadband infrastructure represented in the map at the street level of granularity. This information enables end users to contrast the data on the map with the reality on the ground. Furthermore, Connected Nation's mapping also facilitates a broadband telephone hotline which encourages consumers to document if they want broadband and cannot get it, or to notify Connected Nation if end users believe that a map contains any inaccuracies. All confirmed inaccuracies are corrected immediately. This method of third-party validation has proven to be an effective means to verify the mapping data and engage citizens and local leaders in the broadband future of their communities. Through the organization's interactive map sites, Connected Nation received 5,146 inquiries in the year from May 2008 to April 2009.
- Connected Nation also conducts statistical telephone surveys at the state and local levels among residential consumers and businesses to inquire about broadband availability and speed. The surveys check a statistically significant sample of all addresses, as well as a significant sample of rural addresses, as required on page 30 of the NTIA mapping NOFA. As part of the planning grant, Connected Nation proposes to use these same validation surveys to ask residents and businesses additional questions about how they use the Internet, their demand for faster broadband service, and barriers to computer ownership and broadband adoption. All of these data would be analyzed against demographics in order to understand availability and adoption in relation to income, education level, race, ethnicity, age, and other demographic characteristics.

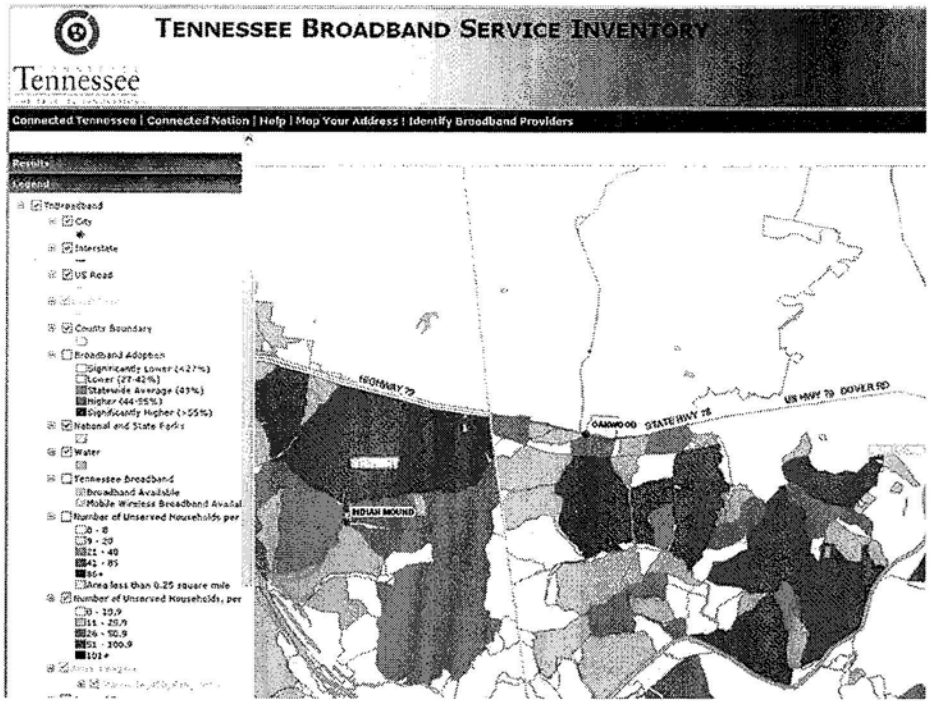
c. ACCESSIBILITY

Connected Nation proposes to make data available to the general public through an interactive broadband inventory map. The Connect Iowa site will serve as the public portal for the interactive broadband inventory map, downloadable maps, complementary datasets, third party verification processes, broadband inquiries and questions about the map, FAQs about the

Connect program, etc. The information presented on this interactive site or any other public format will be in full compliance with the Confidentiality Requirements outlined in ***Sections III*** and ***IV*** of the NTIA SBDD NOFA.

The following screenshots are examples of existing interactive maps produced by Connected Nation. The first screenshot from Connect Minnesota's interactive site presents "drilled down" information of the broadband inventory map by type of platform. The second screenshot from Connected Tennessee's interactive site presents information regarding the number of households per Census Block in unserved areas at a local level.





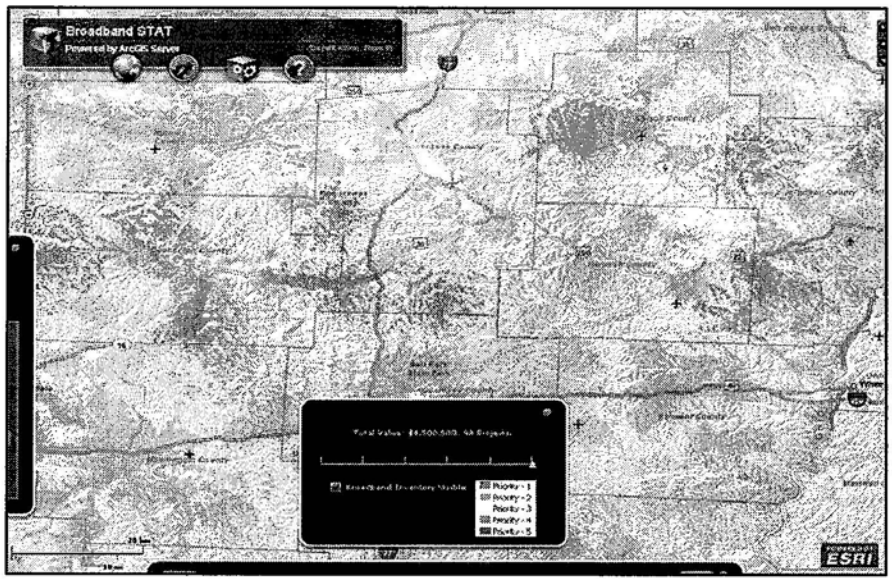
Connected Nation developed its first interactive broadband inventory map in 2007. Since then, these interactive broadband maps have been continually updated and their functionality expanded to provide more granular, verifiable, and pragmatic information to consumers, providers, public policymakers, and the public at large. In order to enable full data transparency and empower the residents of Iowa with the necessary tools to define targeted policies and programs to expand broadband services and adoption rates across the state, Connected Nation has developed with its strategic partner, ESRI, the world's leader in GIS software development, a multi-functional, user friendly platform called Broadband STAT.

Broadband STAT is the next generation in broadband mapping, providing a comprehensive mapping and planning tool for states to manage broadband stimulus projects and activities through the ARRA. Using ESRI's ArcGIS Server and its API mapping technologies to incorporate broadband mapping and survey data with demographic and topographic data from ESRI, the Census Bureau, and other reputable data sources, Broadband STAT provides not only a user-friendly GIS viewer to understand and track broadband deployment over time, it also provides an analytical tool for prioritizing unserved and underserved areas, evaluating and tracking stimulus projects, and enabling taxpayers with full transparency and accountability of broadband stimulus funding in Iowa. Broadband STAT empowers states to:

- Leverage the best-of-class, geographic informatics for broadband decision-making;
- Build and evaluate scenarios to help score and prioritize broadband proposals;
- Provide data-based support for effective grant-making;
- Facilitate project investment tracking over time; and

- Provide access-based tools that are relevant and meaningful for specific audiences, including government agencies, consumers, community leaders, broadband providers, and media.

The interactive site that Connected Nation would develop under the Connect Iowa program would be constructed within this new generation Broadband STAT platform. The following screenshot is an example of what the Connect Iowa interactive site would look like.



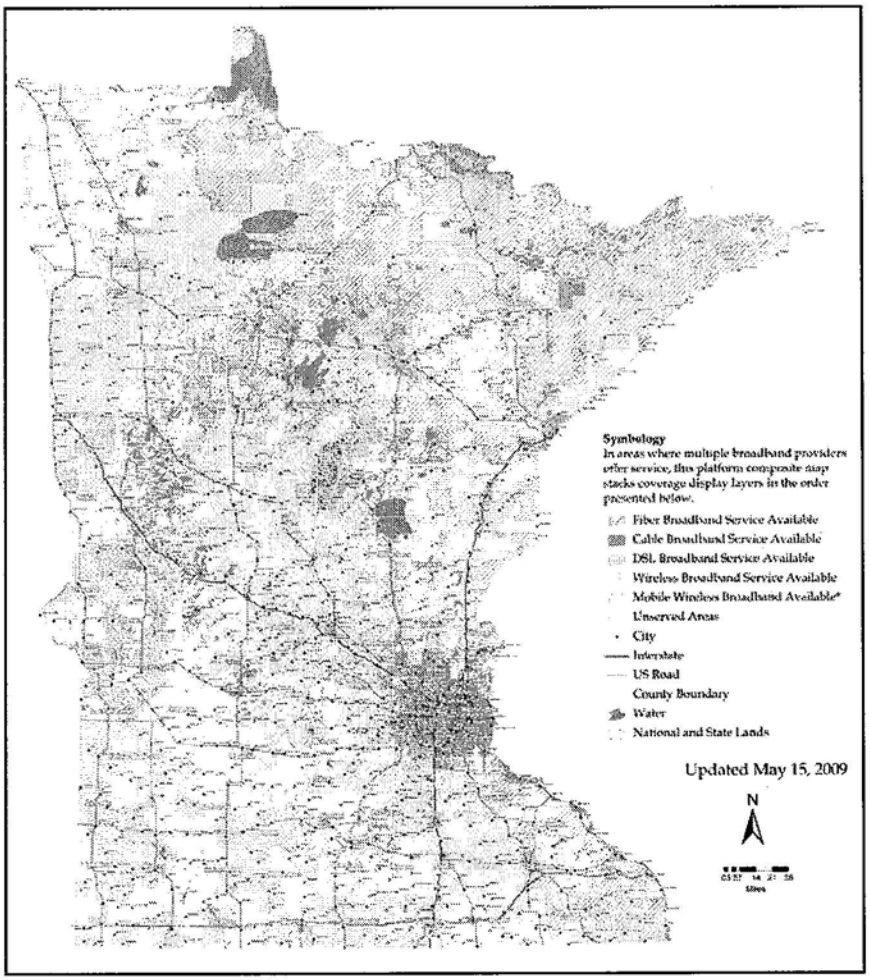
Iowa Broadband Availability Map Proposal

Connected Nation, employing industry-standard GIS toolsets and experienced personnel, will deliver a comprehensive inventory and mapping of existing broadband service and capability at the street or household level of granularity. Connected Nation, in conjunction with Iowa's broadband providers, will update these maps on a routine basis to reflect "real-time" broadband availability. Maps will be presented to the general public in an interactive portal, described in detail above. The interactive portal will present overlaying data relevant to policymakers, providers, and consumers alike, including density of population and other demographic information, topographical, and civil infrastructure data. Data will be searchable at various levels of granularity and geographical areas such as municipality, city, township, political district, tribal boundaries, region, or Census Bureau geographic unit.

In order to provide potential entrepreneurs seeking to apply for RUS or NTIA grants with the broadband infrastructure build out information required for their applications, Connected Nation will also release and maintain a Census Block level map of the available broadband in the state. The interactive map and associated downloadable database will detail the identification number of each of the 168,075 Census Blocks in Iowa, the total number of households per Block, and the number of households with available broadband service per Block. For an example of such tools released by Connected Nation in the State of Minnesota see: http://www.connectmn.org/mapping/Broadband_Stimulus_Data_Tools.php

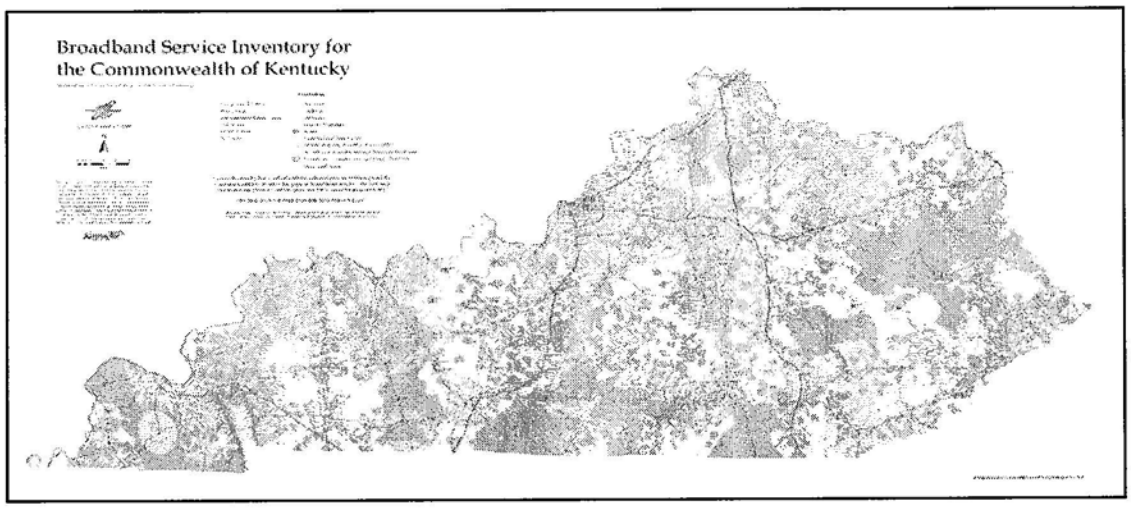
Furthermore, Connected Nation will release and update an interactive map for the state of Iowa illustrating "remote" and "rural" areas as defined under the regulations outlined by RUS in the BIP program for broadband infrastructure grants. Although such maps are outside of the scope of the *Technical Appendix A* of the NTIA Mapping NOFA, Connected Nation believes that such data would be extremely useful for state officials and private entrepreneurs alike as they determine opportunities to apply for infrastructure grants under the NTIA BTOP program and the RUS BIP program.

Examples of Maps to be Produced for the State of Iowa:
Statewide Broadband Availability by Platform: Geographic representation of provider-based broadband data and represented by provider type such as cable, DSL, wireless, fiber, etc. This map also incorporates data such as political boundaries and major transportation networks in the state (see *Minnesota's Broadband Map* below).

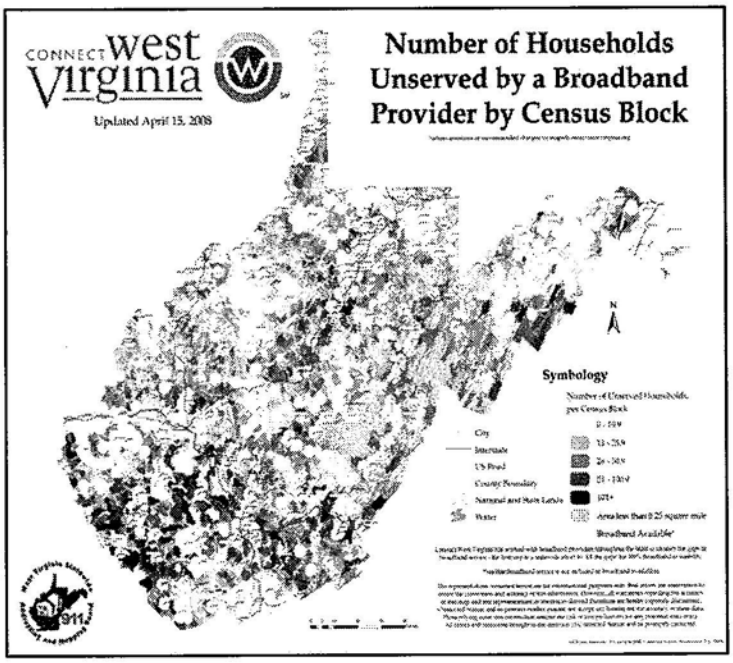


Statewide Broadband Availability by Provider Density: Similar to the aforementioned ***Availability by Platform*** mapping, this additional depiction of broadband data will be represented by two colors: one for areas with only one provider and another for those with

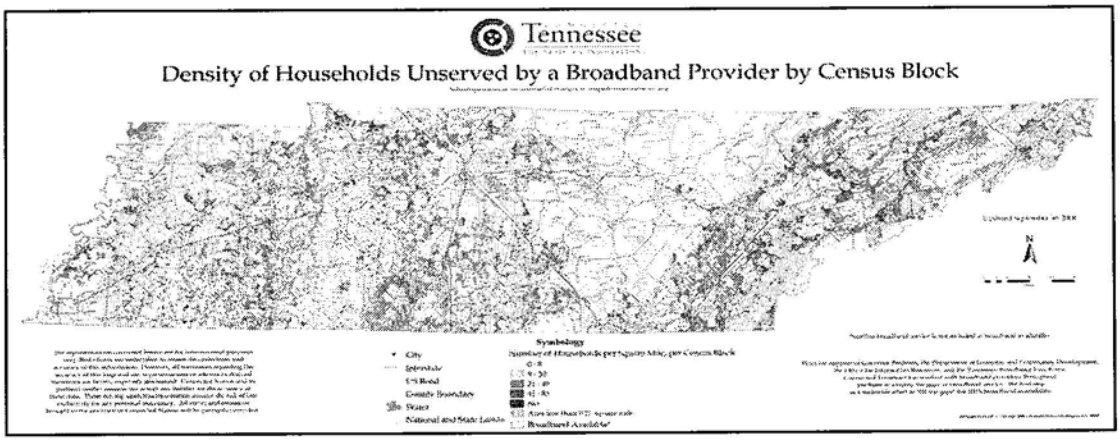
multiple providers. There is no distinction as to the type of service available in any given area (see *Kentucky's Broadband Service Inventory Map* below).



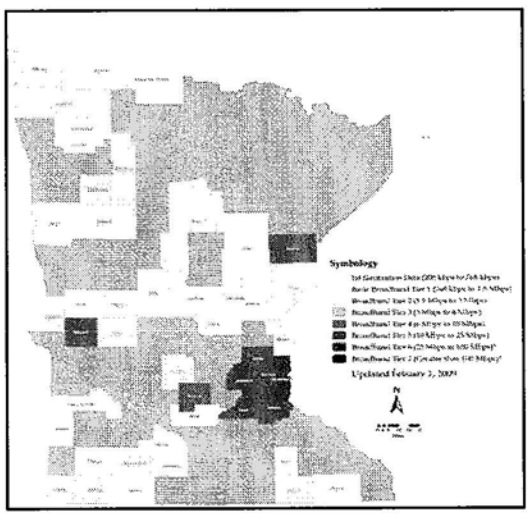
Statewide Unserved Households by Census Block: This presentation of data uses the smallest geographic region that the U.S. Census acknowledges – the Census Block – and the broadband data to create a representation of the number of households in any given census block that do not have service available. In order to determine the definitions of unserved and underserved as defined in the BTOP broadband infrastructure grant program, it is first necessary to determine the number of households without broadband availability, thereby deducting the number of unserved households from the state's total household count in order to determine the percentage of household with broadband availability. This practice has been successfully deployed in all states where Connected Nation is engaged. This example from Connect West Virginia's program provides information regarding the number of households in all unserved Census Block units in the state.

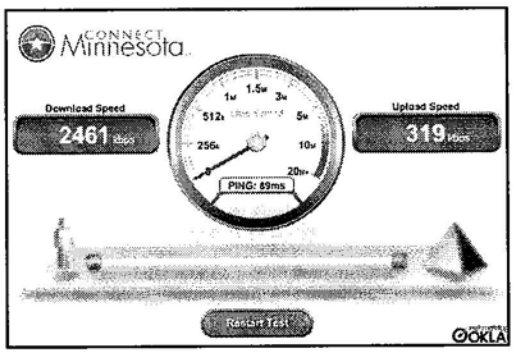


This example from Connected Tennessee, presents the density of population per square mile, per Census Block that is unserved by broadband infrastructure. The yellow areas represent very low density unserved areas (below 4 households per square mile). The dark blue areas represent higher density unserved areas (above 86 households per square mile). This information is essential for policymakers and providers to ascertain possible business opportunities remaining and areas where public investment will likely be needed in order to achieve universal coverage.



Statewide Maps of Tested Broadband Speeds:
Connected Nation proposes the creation of a GIS map displaying average upstream and downstream speeds, as tested by consumers, using data rate benchmarks for broadband service used by the Federal Communications Commission to reflect different speed tiers. This map would be created using current Speedtest.net data as well as data collected through a newly created Connect Iowa speed test portal.





d. SECURITY AND CONFIDENTIALITY

A key component of Connected Nation's broadband mapping process is the protection of confidential information, as required in the NTIA State Broadband Data and Development grant program. Connected Nation executes Non-Disclosure Agreements with each provider, consistent with the principles and guidelines for data confidentiality rules outlined in Sections III and IV of the NTIA SBDD NOFA.

Connected Nation establishes a legal and technical program that ensures full protection of broadband service providers' confidential and proprietary data that are necessary to complete the maps. To that end, Connected Nation incorporates the following processes in all of its mapping programs:

- Full public disclosure from the outset to all state and or federal officials, providers and the general public of the type and form of data that Connected Nation will be releasing publicly and to any government authorities.
- Execution of Non-Disclosure Agreements with broadband providers. These agreements clearly define how each provider's confidential information will be used and protected. The data that is protected via non-disclosure agreements is limited to highly sensitive network infrastructure information, which is processed by Connected Nation to determine the broadband availability footprint and GIS maps. In particular, the specifications of the network infrastructure and equipment, such as the frequencies and beamwidth of wireless signals, latitude/longitude coordinates of digital subscriber line access multiplexers (DSLAMs), or the specifications of fiber routes, remain confidential. The NDAs also protect the confidentiality of provider specific data. (See below for a sample NDA).
- Established protocol for data transfer and processing that ensures maximum protection of the confidential data held by Connected Nation.
- Established IT-based secure system for data storing and hosting.

Importantly, these data confidentiality requirements offer the possibility for Connected Nation to disclose highly detailed, granular maps and information about the broadband inventory in the state. Connected Nation can produce maps and/or datasets that describe broadband availability by platform (as defined in the SBDD NOFA) at multiple levels of geographic disaggregation, including: Statewide, County, Census Tract, Census Block Group, Census Block, political district, municipality, tribal boundaries or other. Connected Nation will work with the Iowa Utilities Board to define, at the beginning of the project, the different levels of disaggregation of the interactive maps. The Broadband STAT platform will enable Connected Nation to establish different password protected data layers for each of these maps, as specified by the Iowa Utilities Board. The different maps presented will be user friendly and searchable, providing a valuable tool to the Iowa Utilities Board and the public at large.

Connected Nation's past success in producing timely, accurate, granular statewide broadband maps is based on a collaborative, volunteer partnership between the State and broadband providers. By establishing a model for data protection and executing Non-Disclosure Agreements with providers to satisfy data confidentiality concerns, Connected Nation has

obtained full cooperation from broadband providers, who have agreed to participate in the mapping program voluntarily and share their data with Connected Nation. Perhaps most importantly, broadband providers become engaged in and committed to the larger collaborative effort to increase broadband deployment statewide. As a result, Connected Nation has successfully and repeatedly delivered to our state clients the powerful broadband mapping tools that the NTIA mapping program now calls for through the SBDD program. By way of example, Connected Nation worked with more than 120 providers across the state of Minnesota to develop the initial Connect Minnesota broadband map in less than four months. Connected Nation is confident that this successful model will work in the state of Iowa, if the mapping program encourages voluntary provider participation in the mapping program.

The following is a general nondisclosure and data sharing template which will be used in a substantially similar form with all providers to govern use and the exchange and protection of Confidential Information received from providers. The exact terms may vary slightly between providers. However, the final form will clearly allow Connected Nation to meet all requirements of the SBDD NOFA and other applicable state agreements.

NONDISCLOSURE AGREEMENT

THIS NONDISCLOSURE AGREEMENT (herein the "Agreement") is dated and effective as of _____, 2009 ("Effective Date"), by and between _____, a corporation with an address for notice and located at _____ ("BBP") and **Connected Nation, Inc.** a not-for-profit corporation with an address for notice and located at 1020 College Street, Bowling Green, KY 42101 ("Connected Nation").

WHEREAS:

I. The Federal Government through the National Telecommunications and Information Administration ("NTIA") and the Rural Utilities Service ("RUS") have made available multiple grant and loan programs ("Federal Programs") to fund broadband mapping, infrastructure, adoption, public accessibility and to promote the general use of broadband technology and applications with such programs' reporting and other requirements of funding being outlined in a relevant Notice of Funds Availability as it may from time to time revised or amended ("NOFA"); and,

II. Included among the Federal Programs is the State Broadband Data Development grant program ("SBDD") governed by that certain Notice of Funds Availability inclusive of all appendices, attachments, exhibits and revisions or amendments thereto, first published in volume 74, number 129, at page 32545 hereby incorporated by reference as if fully restated verbatim herein; and,

III. State Governments ("States") have partnered with Connected Nation to work together toward implementation, expansion and leveraging of these Federal Programs and other such similarly focused programs for the benefit of the States ("State Programs"); and,

IV. The Parties desire to assist the States and Connected Nation in their implementation of Federal Programs and State Programs for the benefit of the States ("Project");

V. The Parties are in possession of certain confidential and proprietary information which may be helpful in advancing these mutually beneficial goals, and both acknowledge that they may receive, from or on behalf of the other Party or its Affiliates, certain information, including trade secret information, considered to be confidential, valuable and proprietary by that Party. "Affiliates" means any company owned in whole or in part, now or in the future, by a Party or by one or more direct or indirect subsidiaries controlled by the Party.

VI. When a Party ("Provider") shares confidential and proprietary information with the other Party ("Recipient"), the confidential and limited use conditions of this Agreement shall apply.

NOW THEREFORE, IN FULL CONSIDERATION of the mutual promises, covenants and obligations contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby expressly acknowledged by the Parties, the Parties agree as follows:

TERMS

a) "Confidential Information" shall be defined in identical terms to the most recent, revised, applicable and in force definition outlined in the SBDD NOFA, as the same may from time to time be revised or amended.

b) All information, including Confidential Information, received by Connected Nation or its Affiliates from BBP or its Affiliates may be used in furtherance of the Project and Connected Nation is hereby granted a worldwide, perpetual, royalty-free, revocable license for the use of such information, including Confidential Information, limited as follows:

i) That Connected Nation may use BBP's Confidential Information to derive maps, interactive websites and tabular data representations of BBP's broadband coverage area, network information, and coverage attributes and other such representations of information including Confidential Information all as may be required by a Project (collectively "Works"); and,

ii) That Connected Nation may provide the National Telecommunications Information Administration or other agency of the United States Federal Government funding or administering a Project with any such Works as may be required by the Project terms and conditions as outlined in any applicable NOFA. BBP acknowledges that such provision of Works may likely result in the disclosure of Confidential Information to governmental authorities and that, once such disclosures are made by

Connected Nation as required by a Project NOFA, Connected Nation is fully released from any liability for the actions of the third party governmental authority regarding the disclosure, sharing or use of Confidential Information; and,

iii) That Connected Nation may provide Works to any U.S. State or Territory for whom a State Program involving Connected Nation has been commenced, provided that no Confidential Information is disclosed to any state government or other third party, except as otherwise provided for herein; and,

iv) That any Works may differentiate between general broadband service types (such as DSL, cable, fixed wireless, BFL and others), and may, at a pinpoint, address level, identify all broadband providers known to Connected Nation at a given location; and,

v) No use of Confidential Information by Connected Nation and consistent with the terms provided for herein shall constitute a disclosure of Confidential Information pursuant to the terms of this Agreement.

c) Recipient will protect Confidential Information provided to Recipient from any use, distribution or disclosure except as permitted herein. Recipient will use the same standard of care to protect Confidential Information as Recipient uses to protect its own highly confidential and proprietary information, but not less than a reasonable standard of care.

d) Recipient may provide Confidential Information only to its employees, corporate Affiliates, consultants, independent contractors and agents who:

i) Have a substantive need to know such Confidential Information in connection with the Project;

ii) Have been advised of the confidential and proprietary nature of such Confidential Information; and

iii) Have personally agreed with Recipient in writing to protect from unauthorized disclosure all confidential and proprietary information, of whatever source, to which they have access in the course of their engagement with Recipient.

e) Confidential Information provided to Recipient in written or other tangible or electronic form will be marked with a confidential and proprietary notice, or if provided orally or visually will be designated as confidential and proprietary at the time of such disclosure or within a reasonable period thereafter. In addition, any information provided to, or received by Recipient (including information visually observed by Recipient while on Provider's premises) that is by its nature and content reasonably distinguishable as the confidential and proprietary information of Provider but is not specifically marked or orally designated as confidential and proprietary by Provider, will be treated as Confidential Information subject to the obligations of this Agreement.

f) Provider's Confidential Information does not include:

i) Any information Provider publicly discloses;

ii) Any information Provider in writing authorizes Recipient to disclose without restriction;

iii) Any information Recipient already lawfully knows at the time Provider disclosed it to Recipient, without an obligation to keep it confidential;

iv) Any information Recipient lawfully obtains from any source other than Provider, provided that such source lawfully disclosed such information; or

v) Any information, maps, interactive websites, tables, drawings, exhibits or other Intellectual Property Connected Nation independently creates with or without reference to BBP's Confidential Information.

g) Parties acknowledge that any discrepancy between the SBDD NOFA and the terms provided for herein shall be resolved in favor of the SBDD NOFA. Nothing contained herein shall be construed to limit Connected Nation's reporting and data sharing obligations under the SBDD NOFA, including sharing of BBP's Confidential Information with NTIA and other federal agencies, as may be required.

h) If Recipient is otherwise required to provide Confidential Information to any court or government agency pursuant to written court order, subpoena, regulation or process of law not otherwise provided for herein, Recipient must first provide Provider with prompt written notice of such requirement and cooperate with Provider to appropriately protect against or limit the scope of such disclosure. To the fullest extent permitted by law, Recipient will continue to protect as confidential and proprietary all information disclosed by Provider in response to a written court order, subpoena, regulation or process of law.

i) Recipient may make tangible or electronic copies and notes of Confidential Information only as necessary for use as authorized herein. All tangible or electronic copies or notes must be marked with the same confidential and proprietary notice as appears on the original. All information provided orally or visually by Provider and reduced by Recipient to tangible or electronic notes must be marked by Recipient as Provider's confidential and proprietary information and will be considered Confidential Information for purposes of this Agreement.

j) All Confidential Information remains at all times Provider's property. Upon Provider's request, all or any requested portion of the specific Confidential Information will be promptly returned to Provider or destroyed, and Recipient will provide Provider with written certification stating that such information has been returned or destroyed.

k) Recipient may identify Provider, its Affiliates and any other owner of Confidential Information protected under this Agreement in reasonable advertising, promotional materials, press releases, and other public disclosure as a contributing internet service provider, provided no specific data covered by the terms of this Agreement is revealed. No license under any trademark, patent, copyright, trade secret or other intellectual property right is either granted or implied by disclosure of Confidential Information to Recipient.

l) The term of this Agreement and Recipient's obligations hereunder commence on the Effective Date and extend with regard to all Information until five (5) years after the date of final disclosure of Information hereunder, but in no case greater than ten (10) years from the Effective Date. Thereafter, Recipient's obligations hereunder only continue in effect with respect to any Confidential Information that is a trade secret under applicable law.

m) This Agreement is not a commitment by Provider to enter into any transaction or business relationship with Recipient, nor is it an inducement for Recipient to spend funds or resources. No such agreement will be binding unless and until stated in a writing signed by both Parties. All Confidential Information is provided to Recipient 'as is,' and Provider makes no warranties or representations with respect to its content, accuracy or completeness.

n) Recipient acknowledges and agrees that any breach or threatened breach of this Agreement is likely to cause Provider and its Affiliates irreparable harm for which money damages may not be an appropriate or sufficient remedy. Recipient therefore agrees that Provider or its Affiliates are entitled to receive injunctive or other equitable relief to remedy or prevent any breach or threatened breach of this Agreement without the necessity of a bond. Such remedy is not the exclusive remedy for any breach or threatened breach of this Agreement, but is in addition to all other rights and remedies available at law or in equity.

o) No forbearance, failure or delay by Provider in exercising any right, power or privilege is a waiver thereof, nor does any single or partial exercise thereof preclude any other or future exercise thereof or the exercise of any other right, power or privilege.

p) If and to the extent any provision of this Agreement is held invalid or unenforceable, all other provisions of this Agreement shall remain in full force and effect to the fullest extent permitted by law.

q) This Agreement is binding upon and inures to the benefit of the Parties and their heirs, executors, legal and personal representatives, successors and assigns, as the case may be.

r) This Agreement is the entire agreement between the Parties hereunder and may not be modified or amended except by a written instrument signed by both Parties. Each Party has read this Agreement, understands it and agrees to be bound by its terms and conditions. There are no understandings or representations with respect to the subject matter hereof, express or implied, that are not stated herein. This Agreement may be executed in counterparts, and signatures exchanged by facsimile or other electronic means are effective for all purposes hereunder to the same extent as original signatures.

IN WITNESS WHEREOF, the Parties have seen and agreed to this Nondisclosure Agreement as evidenced by the signatures of the Parties' authorized representatives below:

BBP:		**Connected Nation, Inc.:**	
By:	_____ *(Authorized Signature)*	By:	_____ *(Authorized Signature)*
Name:	_____ *(Print or Type)*	Name:	_____ *(Print or Type)*
Title:	_____	Title:	_____
Company:	_____		

2. PROJECT FEASIBILITY (30%)

a. APPLICANT CAPABILITIES

IOWA'S MAPPING BUDGET NARRATIVE

The collaborative Connect Iowa effort is a partnership between Iowa Utilities Board and Connected Nation. Connect Iowa demonstrates a solid, effective partnership capable of optimally leveraging the immense opportunity presented by this NTIA's broadband mapping grant program. In developing a project budget, Connect Iowa closely coordinated with the Iowa Utilities Board to develop an informed budget guided by prior experience and supported by financing through documented in-kind support.

Connect Iowa has employed a deliberate and thoughtful methodology to develop a cost model based on well established historical precedent with similar mapping projects in other states to actuate the Iowa State Broadband Data and Development Program (SBDD) project budget. As a Connected Nation affiliate, Connect Iowa will benefit from its parent company's rich program history adjusted for consideration of the enhanced project scope and compressed timeline for deliverables requested by the NTIA. Budget assumptions have been driven by three high-level project areas: provider and community outreach enabling data acquisition; technical expertise necessary for data encoding and mapping; and reliable measures for data validation. In order to accommodate the compressed timeframe for data delivery as outlined in the NOFA, Connected Nation began significant project related, pre-award work in the State of Iowa. As a result, if the enclosed grant application is successful, Connected Nation anticipates requesting reimbursement for pre-award costs effective as of February 17, 2009, the date of the NOFA release.

Mapping	Federal	Non-Federal	Total
Personnel			
GIS Staff	$ 597,572	$ -	$ 597,572
Data Gathering Staff	506,490	-	506,490
Collaborations Staff	107,126	20,922	128,048
Project Management Staff	274,066	209,024	483,090
Research Staff	44,834	-	44,834
Total Personnel	1,530,088	229,946	1,760,034
Fringe Benefits	382,524	57,489	440,013
Travel	264,949	-	264,949
Equipment	137,508	-	137,508
Supplies	95,300	-	95,300
Contractual	620,956	239,459	860,415
Other Line Items: Datasets	-	106,480	106,480
Other Line Items: Outreach	192,490	192,490	384,980
Indirect Cost	1,381,635	353,942	1,735,577
Total	**$ 4,605,450**	**$ 1,179,806**	**$ 5,785,256**
Percent of Total	79.61%	20.39%	

Costs associated with reliable data validation efforts are largely independent of state size, number of broadband providers. Expenses for outreach and data collection, as well as costs for data encoding and mapping are very directly related to the state population and the number of broadband providers. Having more providers translates directly to more data collection and more data mapping causing a higher expense. Connect Iowa has normalized these variable expenses by studying historical and empirical costs in prior broadband mapping projects with similar data collection approaches and dividing those costs by the number of broadband providers involved in those projects resulting in an historical average cost per provider. This normalized standard is then extended to Iowa to account for provider and community outreach costs based upon the number of broadband providers for that state.

The current costing model accounts for a provider relationship management cost of 0.5 hours of FTE time per provider with a reduced update expense of 0.25 FTE time per provider per update for relationship management. In addition, an initial expense of 1 hour of attorney time per provider initially to secure appropriate data sharing relationships with a reduced rate of 0.25 hours of attorney time for each update for ongoing intellectual property and other legal concerns associated with mapping and outreach. Data acquisition for community anchor institutions has also been contemplated as a part of outreach based upon state population, as population would most accurately reflect the number of those facilities which must be included in the project.

Like outreach, technical expertise expenses required for mapping have been driven by historical precedent of prior Connect Iowa mapping projects adjusted to accommodate the increased scope of the SBDD program's reporting expectations. Based upon the level of detail called for in the NOFA for the mapping program, Connect Iowa has projected the level of

effort required for data encoding, mapping, and reporting to be generally 1.5x the per provider cost for previous mapping efforts. In addition, project coordination and management staffing resources have been budgeted to support on site operations as requested by the state. The data processing and mapping budget also reflects the budgetary impact of contractual resources required to be engaged on a short term basis to meet the compressed timeframe for the initial delivery of datasets.

Finally, reliable data validation is consistent with historical precedents. Statistically relevant telephone surveys, Internet inquiries and verification, and the other standardized validation measures employed are largely consistent and independent of a state's population or number of providers. As such, this general budget area has been contemplated as a similar cost scaled appropriately to achieve and exceed those validation measures required in the grant guidelines.

In consideration of this scaled, empirically based cost model, this grant proposal will seek a bottom line budget of $4,605,450 in federal grant funds for the 5-year mapping project from NTIA for the benefit of the State of Iowa. A non-federal, documented in-kind match will be provided from various sources of $1,179,806 making the total SBDD mapping project budget $5,785,256.

In order to gather the initial data, a significant effort must be undertaken to establish a legal relationship with each individual provider through Non-Disclosure Agreements and facilitate a data transfer in a format that is usable and able to satisfy the requirements of the NTIA. This greater level of effort, along with other up-front costs, is reflected in the first-year cost.

Role	Hourly Rate	Initial Hours (6 Months)	Update Hours (6 Months)	Initial Base Personnel Cost	Update Base Personnel Cost
GIS					
GIS Analyst					
GIS Manager					
GIS Consultants					
		Project Total	146,000	146,000	-
Data Gathering					
Engineering					
Engineering Consultants					
		Project Total	414,016	156,400	26,200
Collaboration Relations					
Communications					
Partner Relations					
Research Intern (CAI work)					
Legal-General					
		Project Total	195,730	56,600	14,150
Project Management					
Project Coordinator					
Project Management					
Research					
Research Analyst					
Research Intern					
Chief Analyst					
Research Consultant					
			Project Total		9,100.00

Total Employee Hours	4,870	4,334
Total Employee FTE's	4.68	4.17
Total Contractor Hours	2,146	172
Total Contractor FTE's	2.06	0.17
Total Mapping Hours	7,015.27	4,505.73
Total Mapping FTE's	6.75	4.33

Personnel: Personnel costs primarily include a portion of CN employees' time necessary to fill the following roles related to outreach, data encoding/mapping and validation: Mapping: GIS Analysts and GIS Manager; Data Gathering, Updating & Data Validation: Wireless Business Analysts, Research Analysts; Collaboration: Strategic Partnerships staff, Public Relations Director and staff; Project Management, Coordination & Reporting: Project Management, Project Coordinator, Web-Hosting Management.

Personnel costs would account for nearly 9,000 personnel hours annually to provide the necessary long-term staff for the data collection efforts to identify, establish and maintain working relationships with all of Iowa's broadband providers; to collect and update the data in accordance with NTIA's mapping NOFA; to produce a statewide broadband availability map; to establish data verifiability protocols to ensure accuracy of data and continual testing and checking of mapping data; to manage data update gathering and reporting; to develop and undertake a targeted media campaign to build awareness of consumer's ability to test their broadband speed; to process provider specific information to fulfill the NTIA reporting requirements; to provide periodic reports to the State of Iowa; and for overall project management and coordination. While actual salaries vary according to the skill sets and market environment for the given positions, the anticipated average base salary of the primary positions involved is approximately $70,000 per year. This baseline of compensation will ensure this collaborative partnership can assemble a qualified team to meet the challenges and full take advantage of all opportunities presented by this program for the benefit of the State of Iowa.

The total personnel costs are $1,760,034: $1,530,088, from federal sources, and $229,946 provided in-kind by the State of Iowa. Non-state personnel costs include a 4% cost of living adjustment annually.

Fringe Benefits: Fringe benefits are estimated to be 25% of the total personnel costs. The cost of fringe benefits included over the life of this grant is $440,013. The amount requested from federal sources is $382,524: $57,489 as an in-kind contribution from the State of Iowa.

Travel: Travel costs are comprised of mileage, meals, airfare, and hotel accommodation, as well as rental car and associated fuel costs necessary to meet the requirements of the NOFA. Other miscellaneous travel costs may also be included in this category, as needed. Mileage costs would be paid at the applicable standard federal rate which is currently $.55 per mile; meal costs are estimated at $45 per day based on the current standard federal per diem rate; airfare costs are based on an average of $500 per round-trip flight; hotel costs are based on an average of $200 per night; and rental car and associated fuel costs are based on an average of $90 per day. All travel costs include a 4% annual inflation adjustment. The total travel costs are projected to be $264,949, all from federal sources.

Equipment: [redacted]

The total equipment costs are projected to be $137,508, all from federal sources. All equipment costs include a 4% annual inflation adjustment.

Supplies: Supply costs include, but are not limited to, office supplies and office expense costs as well as costs for postage, printing, telephone and other similar items directly related to the

implementation of this program. The supplies budget includes an initial amount of $4,850 for each FTE for small equipment (employee specific such as a laptop, desk, chair, etc.) as well as $250 per month per FTE for office supplies, small equipment replacement cost or other necessary costs as detailed above or project specific miscellaneous cost. The total supply costs are projected to be $95,300 all from federal sources. Annual supply costs include a 4% annual inflation adjustment.

Contractual: Contractual costs include provisions for sub-contractors as needed to provide the necessary support to our GIS, Data Gathering, or other personnel in order to meet the requirements in the NOFA. The estimated consultant cost related to GIS consultants needed to produce the NOFA compliant maps delivered in November, February and March is $146,000 all from federal sources. We do not expect to engage GIS consultants on a continuing basis to support update costs for data validation, but we will engage consultants as needed to ensure the successful delivery of the project.

The estimated consultant cost related to data gathering and validation needed to produce the NOFA compliant maps delivered in November, February and March is $156,400 semi-annual update costs totaling $26,200. This translates to a total cost over the life of the project of $414,016. Additionally, we would expect to employ contractual vendors who recognize the civic value of this worthy project and as such would be willing to donate a portion of their services to the project as an in-kind contribution up to and including potentially a donation of 1 hour for every 1 hour paid. As such, half of the above listed amounts would be in-kind contributions.

Contractual costs also include the legal expertise essential to execute the Non-Disclosure Agreements with the providers. The estimated legal cost related to the legal agreements needed to produce the maps delivered in November, February and March are $56,600 with semi-annual update costs totaling $14,150: total cost over the life of the project of $195,730. Connect Iowa's attorney has committed to contribute an hour in-kind for every hour worked and as such half of the above listed amounts would be in-kind contributions.

A portion of the research surveys and research consultant costs are included in this category to provide consistent and relevant data validation. Annual research survey costs are estimated at $42,460. Approximately 70% of the survey cost is included in the mapping budget for a project total of $160,984. In addition a research consultant will provide services over the life of the project totaling $9,100.

The total contractual costs are $860,415: $620,956 from federal sources, $239,459 from the State of Iowa. Connect Iowa has demonstrated the ability to engage consultants with the desire to contribute to the initiatives carried out by the non-profit organization. All contractual costs include a 4% cost of living adjustment annually.

Datasets: The State of Iowa will provide the following sets of data that have been collected using state resources to enhance the value and functionality of the broadband maps that will be created:

- Nearly compete Community Anchor Institution data
- State Owned Towers

- PSAP
- Aerial Imagery
- Land Use
- Dark Fiber Locations
- Updated Population Data
- State Owned/Operated Networks

The fair market value of these data sets is approximately $106,480.

Outreach: Included in the budget are costs necessary for Connect Iowa to develop an outreach and education campaign to build awareness of consumers' ability to validate the broadband mapping data through the interactive map and the broadband speed test. Other outreach efforts will be engaged as needed to support and fulfill the requirements of the grant. Outreach will continue throughout the life of the project but will have a concentrated effort in the first six months. Connect Iowa has demonstrated the ability to engage vendors with the desire to contribute to the initiatives carried out by the non-profit by contributing a one-to-one match on advertising. For this project, Connect Iowa will seek to partner with such vendors for Iowa's data validation. In-kind support letters are attached as a demonstration of the types of support Connect Iowa has received from vendors.

Total outreach costs are projected at $384,980: $192,490 from federal sources, $192,490 contributed in-kind from the State of Iowa. All outreach costs include a 4% annual inflation adjustment.

Indirect Cost: Indirect costs are included at a rate of 30%. These indirect costs included over the life of this grant are $1,735,577. The amount requested from federal sources is $1,381,635; $21,211 donated in-kind from Connect Iowa, and an in-kind contribution of Connected Nation. Indirect costs are those that will be incurred for common or joint objectives and cannot readily be identified with a particular direct cost objective.

Connected Nation, as Connect Iowa's parent company, will participate in the mapping and planning efforts for the State of Iowa. As such we are utilizing their proposed indirect cost rate. In compliance with OMB Circular A-122, Connected Nation's indirect costs include items, when not associated directly with a project, such as telecommunications; printing; rent; utilities; depreciation; insurance; postage; hardware and software costs; general administration and other general expense; personnel cost of administrative, accounting and human resource employees; operation and maintenance expense; as well as grant compliance, grant financial reporting and auditing costs (when applicable).

Iowa's Planning Budget Narrative

Connect Iowa proposes to utilize planning funds to work collaboratively with the Iowa Utilities Board to achieve a number of the BDIA-related purposes as outlined in Section 5 below. Connect Iowa's cost proposal will seek $508,965 of federal grant funds for the 5-year planning project from NTIA for the benefit of the state of Iowa. A non-federal match will be provided from various sources of $127,682 making the total SBDD planning project budget of $636,647.

Planning	Federal	Non-Federal	Total
Personnel			
Broadband Planning Staff	$ 148,959	$ 71,500	$ 220,459
Research Staff	19,220	-	19,220
Total Personnel	168,179	71,500	239,679
Fringe Benefits	42,044	17,876	59,920
Travel	18,385	-	18,385
Equipment	47,761	-	47,761
Supplies	7,014	-	7,014
Contractual	72,892	-	72,892
Other Line Items: Datasets	-	-	-
Other Line Items: Outreach	-	-	-
Indirect Cost	152,690	38,306	190,996
Total	**$ 508,965**	**$ 127,682**	**$ 636,647**
Percent of Total	79.94%	20.06%	

Personnel: Personnel costs related to broadband planning staff total $239,679: $168,179 from federal funds and $71,500 contributed in-kind from the state of Iowa.

Fringe Benefits: Fringe benefits are estimated to be 25% of the total personnel costs. The cost of fringe benefits included over the life of this grant is $59,920. The amount requested from federal sources is $42,044 and $17,876 contributed in-kind from the State of Iowa.

Travel: Travel costs are comprised of mileage, meals, airfare, and hotel accommodation, as well as rental car and associated fuel costs necessary to meet the requirements of the NOFA. Other miscellaneous travel costs may also be included in this category, as needed. Mileage costs would be paid at the applicable standard federal rate which is currently $.55 per mile; meal costs are estimated at $45 per day based on the current standard federal per diem rate; airfare costs are based on an average of $500 per round-trip flight; hotel costs are based on an average of $200 per night; and rental car and associated fuel costs are based on an average of $90 per day. All travel costs include a 4% annual inflation adjustment. The total travel costs are projected to be $18,385, all from federal sources.

Equipment: [redacted] The total equipment costs are projected to be $47,761, all from federal sources. All equipment costs include a 4% annual inflation adjustment.

Supplies: Supply costs include, but are not limited to, office supplies and office expense costs as well as costs for postage, printing, telephone and other similar items directly related to the implementation of this program. The supplies budget includes an initial amount of $4,850 for each FTE for small equipment (employee specific such as a laptop, desk, chair, furniture, etc.) as well as $250 per month per FTE for office supplies, small equipment replacement cost or other necessary costs as detailed above or project specific miscellaneous cost. The total supply costs are projected to be $7,014 all from federal sources. Annual supply costs include a 4% annual inflation adjustment.

Contractual: Contractual costs include provisions for hiring sub-contractors with specialized expertise in accomplishing the purpose and focus areas mentioned above. The total contractual costs over the life of this grant total $72,892, all from federal sources.

Indirect Cost: Indirect costs are included at a rate of 30%. These indirect costs included over the life of this grant are $190,996, all from the State of Iowa. The amount requested from federal sources is $152,690 with an amount projected of $38,306 to be contributed in-kind by Connect Iowa. Indirect costs are those that will be incurred for common or joint objectives and cannot readily be identified with a particular direct cost objective and cannot readily be identified with a particular direct cost objective. In compliance with OMB Circular A-122, Connect Iowa's indirect costs include items, when not associated directly with a project, such as telecommunications; printing; rent; utilities; depreciation; insurance; postage; hardware and software costs; general administration and other general expense; personnel cost of administrative, accounting and human resource employees; operation and maintenance expense; as well as grant compliance, grant financial reporting and auditing costs (when applicable).

b. APPLICANT CAPACITY, KNOWLEDGE AND EXPERIENCE

Connected Nation, Inc.: Connected Nation is a national 501(c)(3) non-profit corporation based in Washington, D.C. We believe that states, communities, families, and individuals can realize great economic and social advantages when we accelerate broadband availability and increase broadband use in all areas, rural and urban alike. As a national 501(c)(3) non-profit corporation, Connected Nation is focused solely on closing the digital divide. We work by the motto: *Enabling Technology, Empowering People.* We exist to help states, communities, families, and individuals realize the great economic and social advantages that occur when broadband availability is accelerated.

Mission Statement: Connected Nation, Inc. believes that states, communities, families and individuals can realize great economic and social advantages when we accelerate broadband availability and increase broadband use in all areas, rural and urban alike. Connected Nation, Inc. facilitates public-private partnerships to increase access to and use of broadband and related technology, creating dramatic results that translate into economic and community development, better education, higher quality healthcare, more efficient public service, and improved quality of life. Connected Nation, Inc. aspires to be recognized as an international

market leader among organizations that work in the trenches to bridge the digital divide and increase opportunities that are enabled when people have the ability and desire to connect.

Our History: Through its pilot initiative, ConnectKentucky, Connected Nation developed a nationally-recognized model for spurring broadband deployment and increasing broadband adoption. Connected Nation since then has launched sister initiatives in Illinois, Ohio, Tennessee, and Texas. Connected Nation's successful model consists of five primary components:

1. Broadband infrastructure mapping and planning,
2. Comprehensive research on broadband use and barriers to broadband adoption,
3. Launching a statewide grassroots technology planning and awareness campaign that consists of local "e-Community Leadership Teams" in each county,
4. Facilitating a collaborative relationship between the state and the broadband provider community, including estimating the true cost of service build-out into unserved areas, and
5. Increasing the use and ownership of computers and related devices that incite demand for broadband.

Connected Nation is the nation's leading expert in broadband inventory mapping. Under Connected Nation's pilot program, ConnectKentucky, we developed the first state-wide broadband inventory map in America back in 2005. Since then, Connected Nation has produced even more accurate and expedient mapping programs in the states of Tennessee (2008), Ohio (2008), South Carolina (2008), West Virginia (2008), Minnesota (2009) and North Carolina (2009). This history places Connected Nation as the most experienced broadband mapping agent in the nation. To accomplish these maps, Connected Nation has engaged in volunteer, collaborative partnerships with over 340 providers, including the largest providers in the nation, many of which served the broadband needs of the state of Iowa. Connected Nation's longstanding relationship as a trusted mapping partner with broadband providers places us in a unique position to deliver accurate and timely maps in the state of Iowa.

Further, because Connected Nation facilitates true public-private partnerships, we have been able to partner with multiple state governments, as listed above, as well as leading private sector stakeholders in the advancement of broadband services. The following private sector leading entities are partners of Connected Nation: Alliance for Digital Equality, American Academy of Nursing, American Homeowners Grassroots Alliance, American Farm Bureau Federation, AT&T, Cisco Systems, Comcast Corporation, Communications Workers of America, CTIA – The Wireless Association, Digital Bridge Communications, Entertainment Consumers Association, ESRI, Information Technology & Innovation Foundation, Intel Corporation, Internet Innovation Alliance, Joint Center for Political and Economic Studies, Kansas Farm Bureau Federation, Microsoft Corporation, Minority Media and Telecommunications Council, National Association of State Chief Information Officers, National Cable Telecommunications Association, National Consumers League, The National Grange, NIC, Ohio Farm Bureau Federation, Phoenix Center for Advanced Legal & Economic Public Policy Studies, Telecommunications Industry Association, Tennessee Farm Bureau Federation, The Children's Partnership, U.S. Chamber of Commerce, USTelecom, Verizon Communications, Voyant International Corporation, and Windstream Communications.

Connected Nation is prepared to leverage all of these relationships to work with the state of Iowa to successfully address the opportunity for the state under the Broadband Stimulus plan, including the broadband infrastructure grant opportunities as well as the public computing centers program and the sustainable adoption programs.

Connected Nation's Grant Awards List:

1. **Bill and Melinda Gates Foundation** (2008-2010): Connected Nation was selected from an invitation-only solicitation for a project aimed at increasing broadband access and utilization in America's public library systems.
2. **USDA Rural Utilities Service Community Connect Grants** (2006 - 2008): Connected Nation successfully led the efforts on several RUS Community Connect Grants. The RUS Community Connect Grant is one of the most competitive and difficult-to-win grants. To date, Connected Nation has secured awards on three Community Connect grants.
3. **ARC Grant for Connected Nation's No Child Left Offline Program and ConnectKentucky Operations** (2001 – present): ARC has provided funding in many different forms to support our research, mapping, and broadband deployment efforts. Most recently they have provided funding in their region of Kentucky for our No Child Left Offline/Computers for Kids programs.
4. **DRA Grant for Community Development** (2005 - 2008): Connected Nation received this grant to fund community planning, awareness and development efforts (eCommunity) in DRA counties.
5. **AT&T Foundation** (2007 – present): Grant funding received from the AT&T foundation has supported our No Child Left Offline/Computers for Kids programs in multiple states.
6. **AEP** (2007 – present): Grant funding received from American Electric Power Company has supported our No Child Left Offline/Computers for Kids programs in their regions of Kentucky.
7. **Connect State Programs** (2001 – present)
   All Connect State programs are underwritten through public/private grants for broadband deployment efforts. All of the state programs, with the exception of our involvement in California, have included a statewide, broadband inventory map. In each state initiative, Connected Nation has written and been awarded a combination of federal, state and/or private grants ranging from region to program specific grants. Examples of some of the federal grants utilized are Appalachian Regional Commission (ARC) and Delta Regional Authority (DRA) grants. State grants have traditionally been in the form of economic development or technology grants. Private contributions have been in many different forms such as partnership contributions or foundation grants for program specific needs.

   - **Connected Texas** *2009 - Present*
   - **Connect Kansas** *2009 – Present*
   - **Connect Colorado** *2009 – Present*
   - **Connect Illinois** *2009 – Present*
   - **Connect North Carolina** *2009 - Present*
   - **Connect Minnesota** *2008—Present*
   - **Connect South Carolina** *2008—Present*

- **Connect West Virginia** *2007—Present*
- **Connect Ohio** *2007—Present*
- **Connected Tennessee** *2007—Present*
- **ConnectKentucky** *2001—Present*

3. EXPEDIENT DATA DELIVERY (20%)

Connected Nation is prepared and well positioned to ensure that the required deadlines of data submission, as set forth in the *Technical Appendix A* of the NTIA Mapping NOFA are met. These deadlines include November 1, 2009, a substantially complete dataset or partial dataset; February 1, 2010, a substantially completed dataset; and March 1, 2010, a fully completed dataset. While these deadlines are ambitious, Connected Nation has a successful, proven track record in compiling such required datasets in the desired timeframe, and producing the corresponding statewide mapping suite of products that is described above in *Section c. Accessibility.*

Specifically, for the state of Minnesota, Connected Nation was able to initiate provider outreach, execute the necessary NDAs to facilitate data transfer with over ninety-six (96) providers in the state, process, assimilate and produce the necessary datasets, all pursuant to the timely deliver of the state's initial mapping products within a three (3) month window of time. This feat accounted for nearly ninety percent (90%) of the final provider sample in the final versions of the maps produced over the entire eight-month project.
Connected Nation's experience and longstanding relationship as a trusted mapping partner with over 340 broadband providers, including the largest providers in the nation, many of which serve the broadband needs of Iowa's citizens and businesses, places Connected Nation in a unique position to deliver accurate and timely datasets and maps in the state of Iowa. Additionally, Connected Nation has a strong relationship with the major telecommunications and cable associations in the country, who have been instrumental in reaching smaller, single-state telecommunications and cable providers with whom we do not have an established relationship. The following national trade associations are members of Connected Nation's Board of Directors: USTelecom, National Cable and Telecommunications Association, CTIA (the Wireless Association). Connected Nation is a member of WCAI and has informal collaborative relationships with OPASTCO and the National Telecommunications Cooperative Association, which represent hundreds of small corporate and cooperative providers across the country.

Delivering this requirement will entail the following programmatic steps:

i) Identify and establish relationships with all providers in the state;
ii) Gather and process data from each individual provider;
iii) Produce a state-wide broadband availability map;
iv) Establish data verifiability protocols to ensure accuracy of data and continual testing and checking of mapping data;
v) Process provider specific information to fulfill the reporting requirements; and
vi) Provide semi-annual updates to meet the requirements of the SBDD NOFA.

Connected Nation's Program Management Methodology and its personnel employ recognized project management best practices as prescribed by the Project Management Institute's *Project Management Body of Knowledge* (PMBOK®) to provide efficient and effective

project administration. While this Project Work Plan is heavily dependent on the cooperative dialogue with several independent stakeholders and therefore assumes a level of inherent risk, Connected Nation takes great effort to mitigate any slippage along this aggressive schedule. A sample work plan is included below.

Iowa Work Plan SAMPLE PLAN

September 13, 2009

- NTIA Notice of Award
- Negotiated Memorandum of Understanding

September 20, 2009

- Connect [NAME OF STATE] Contract Begins

September 27, 2009

- Submit a complete work plan for the mapping and planning project
- Build a comprehensive list of Iowa's broadband providers
- Submit list of Iowa's broadband providers
- Begin administration of Non-Disclosure Agreements (NDAs) to each provider
- Identify calendar for Connect Iowa presentations and/or legislative meetings
- Submit Connect Iowa Communications Plan
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process where applicable
- Obtain Iowa approval of Status Report Format and Frequency
- Submit Connect Iowa website prototype for review
- Launch a mapping website for Connect Iowa
- Generate press release announcing website launch
- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Identify existing state resources for Community Anchor Institution datasets and establish contact
- Assist smaller providers in the data collection/transfer/verification process
- Submit Connect Iowa Monthly Program Status Report

October 4, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

October 11, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Determine added resources needed to complement identified Community Anchor Institution datasets and implement program (surveys, local authority outreach, etc.)
- Assist smaller providers in the data collection/transfer/verification process

October 18, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

October 25, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process
- Submit Connect Iowa Monthly Program Status Report

November 1, 2009

- Strive to deliver to NTIA substantially complete set of availability data
- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

November 8, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

November 15, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

November 22, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

November 29, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process
- Submit Connect Iowa Monthly Program Status Report

December 6, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

December 13, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers

- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

December 20, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

December 27, 2009

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process where applicable.
- Submit Connect Iowa Monthly Program Status Report

January 3, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

January 10, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

January 17, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process

January 24, 2010

- Complete NDA administration for all participating providers (initial map)
- Complete data transfer and conversion process (initial map)
- Supply coverage maps to each participating provider for verification and error-checking (initial map)
- Completes the data verification process with each broadband provider (initial map)
- Provide initial mapping products to Iowa
- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

January 31, 2010

- Make each map (initial) available online from the Connect Iowa website for download in PDF and JPEG formats
- Launches online interactive version of the maps (initial) that is searchable by street address
- Make available a public input/inquiry form online for users to dispute coverage data

- Deliver to NTIA substantially complete set of all broadband mapping data
- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process
- Submit Connect Iowa Monthly Program Status Report

February 7, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

February 14, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process where applicable

February 21, 2010

- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Process and convert Community Anchor Institutions data
- Assist smaller providers in the data collection/transfer/verification process

February 28, 2010

- Provide final mapping products to Iowa
- Submit final set of maps to Iowa
- Make each map available online for download in PDF and JPEG formats from the Connect Iowa website
- Deliver to NTIA a complete set of all broadband mapping data
- Continue administration of Non-Disclosure Agreements (NDAs) to providers
- Process and convert provider supplied data (infrastructure and service area)
- Assist smaller providers in the data collection/transfer/verification process
- Submit Connect Iowa Monthly Program Status Report

March 7, 2010

- Connected Nation modifies and/or verifies all coverage data and a final set of maps are provided to Iowa

September 1, 2010

- Commence with Semi-Annual updates through 2014.

4. PROCESS FOR REPEATED DATA UPDATING (10%)

Once the relationships and agreements with broadband providers are established in the first phase of the mapping program, Connected Nation will be well positioned to meet the semi-annual update reporting requirements set by the NTIA mapping program. Connected Nation

has a proven record of success in this area as well. Our existing state programs contemplate similar updating goals that we have always met in a timely and thorough way.

To ensure the success of such updates, Connected Nation will distribute clear, concise forms to all broadband providers in the state that will clearly outline the data that needs to be reviewed and updated by the provider. Clear deadlines for submission of the data will be set. Deadlines will leave ample time for providers to process and submit data. Following our data gathering and mapping process, Connected Nation's mapping team will be able to assist any provider who may not have resources on hand to meet these data updating requirements. This service may be particularly valuable to small providers – both wire-line and wireless – who do not have sufficient in-house resources to meet these data reporting requests. Prior to submitting data to NTIA as specified in the *Technical Appendix A* of the NTIA Mapping NOFA and its clarification, all data will be subjected to a verification and validation process, as outlined above.

In addition to the required semi-annual updates of the broadband data and downloadable maps, Connected Nation proposes to update the interactive broadband maps in real time. That is, Connected Nation is prepared to continually update the broadband inventory database for the interactive maps, as updated network data is received from providers or through the ongoing data verification process. This real-time data updating is essential to ensure that broadband maps are current and therefore serve the needs of state officials and citizens alike.

5. PLANNING AND COLLABORATION (10%)

According to the NOFA, page 33, lines 696 through 703, "In addition to inclusiveness and collaboration, proposals including planning components will be evaluated based on how well the proposed planning process will identify service availability gaps, analyze problems and opportunities related to broadband deployment, and determine priorities as well as resolve conflicting priorities. Planning proposals must present the following: (1) the BDIA-related purpose as listed footnote 6; (2) the problem(s) to be addressed; (3) the proposed solution; (4) the anticipated outcomes of the project; and (5) the cost of such proposal in light of the previous factors."

To effectively meet these evaluation criteria, Connected Nation will work collaboratively with the Iowa Broadband Deployment Governance Board to implement a planning program to achieve a number of the BDIA-related purposes. The recommended program would be led by a broadband planning staff, comprised of joint resources from the state of Iowa and Connect Iowa to identify service availability gaps, analyze problems and opportunities related to broadband deployment, and establish priorities. The primary analytical tool for broadband planning staff would be Broadband STAT, a GIS analytics solution developed jointly by Connected Nation and ESRI to provide the next generation in broadband mapping and decision-making. For a detailed description of the Broadband STAT platform see responses to *Section c. Accessibility* above. Specifically, the recommended planning program would:

(1) Address the following BDIA-related purposes as listed in footnote 6:
   a. To develop and provide a baseline assessment of broadband deployment in the state;

b. To identify and track the areas with low levels of broadband deployment, and, via statistical survey research, the rate at which residential and business users adopt broadband service and other related information technology services, and possible suppliers of such services;
c. To identify via statistical survey research barriers to the adoption of broadband service and information technology services;
d. To collaborate with broadband service providers and information technology companies to encourage deployment and use;
e. To collect and analyze detailed market data concerning use and demand for broadband service;
f. To facilitate information exchange regarding use and demand for broadband services between public and private sector users; and
g. To create a geographic inventory map of broadband service.

This list accounts for seven of the ten BDIA-related purposes as listed in footnote 6 of the NOFA. The three purposes not included in this list are those that fall well outside the budget of the $500,000 (county-level local technology planning teams and computer ownership programs) and the one purpose that is already accounted for within the scope of the NOFA requirements for data collection (identification of available broadband speeds).

(2) Address the state's challenge of coordinating and understanding:
a. The statewide broadband landscape;
b. Geographic areas in greatest need of support and/or subsidy;
c. The barriers to broadband deployment in specific unserved and underserved areas, and the specific opportunities for achieving increased broadband deployment based on the market conditions and geographic/demographic variables of each area;
d. The barriers to increased broadband adoption and computer ownership in order to develop effective programs for improving information technology use;
e. The synergies and opportunities for coordination across both public and private sectors, including state agencies and broadband providers, to achieve increased broadband deployment and improved broadband adoption and computer ownership.

(3) Propose a solution and anticipated outcomes by:
a. Incorporating broadband planning questions into the data validation survey conducted through the mapping grant. This approach would create program efficiencies by piggybacking onto the survey used for data validation in order to collect additional consumer survey data that identifies broadband adoption and computer ownership rates, barriers to broadband adoption and computer ownership, and detailed market data concerning the use and demand for broadband service. These data, in addition to the broadband mapping data, would feed the Broadband STAT tool, enabling a comprehensive picture of the supply and demand for broadband services across a state;
b. Empowering a broadband planning team, comprised of staff from both the state of Iowa and Connect Iowa, to work collaboratively through Broadband STAT to identify service availability gaps, analyze problems and opportunities related to broadband deployment, and determine priorities as well as resolve conflicting priorities.

This planning proposal would meet all requirements of the SBDD NOFA, while directly targeting the evaluation criteria for the planning component of the SBDDG. Ultimately, the Iowa broadband planning program would enable and drive additional federal funding opportunities for demand-side program opportunities, such as computer ownership programs and local planning teams, as well as supply-side infrastructure opportunities. The result would be a broadband planning framework for the state of Iowa that empowers data-driven, research-based analytics to maximize and coordinate broadband stimulus funding across all federal grant/loan programs.

OMB Approval No. 4040-0006
Expiration Date 07/30/2010

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Mapping	11.558	$ 4,605,450.00	$ 1,179,806.00	$	$	$ 5,785,256.00
2. Planning	11.558	508,965.00	127,682.00			636,647.00
3.						
4.						
5. Totals		$ 5,114,415.00	$ 1,307,488.00	$	$	$ 6,421,903.00

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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY (1) Mapping	(2) Planning	(3)	(4)	Total (5)
a. Personnel	$ 1,760,034.00	$ 239,679.00	$	$	$ 1,999,713.00
b. Fringe Benefits	440,013.00	59,920.00			499,933.00
c. Travel	264,949.00	18,385.00			283,334.00
d. Equipment	137,508.00	47,761.00			185,269.00
e. Supplies	95,300.00	7,014.00			102,314.00
f. Contractual	860,415.00	72,892.00			933,307.00
g. Construction					
h. Other	491,460.00				491,460.00
i. Total Direct Charges (sum of 6a-6h)	4,049,679.00	445,651.00			$ 4,495,330.00
j. Indirect Charges	1,735,577.00	190,996.00			$ 1,926,573.00
k. TOTALS (sum of 6i and 6j)	$ 5,785,256.00	$ 636,647.00	$	$	$ 6,421,903.00
7. Program Income	$	$	$	$	$

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SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8. Mapping	$ 332,731.00	$ 415,126.00	$ 431,949.00	$ 1,179,806.00
9. Planning	38,306.00	89,376.00		127,682.00
10.				
11.				
12. TOTAL (sum of lines 8-11)	$ 371,037.00	$ 504,502.00	$ 431,949.00	$ 1,307,488.00

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	$ 1,406,586.00	$ 498,823.00	$ 498,823.00	$ 204,470.00	$ 204,470.00
14. Non-Federal	$				
15. TOTAL (sum of lines 13 and 14)	$ 1,406,586.00	$ 498,823.00	$ 498,823.00	$ 204,470.00	$ 204,470.00

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (YEARS) (b)First	(c) Second	(d) Third	(e) Fourth
16. Mapping	$ 1,290,303.00	$ 780,686.00	$ 811,911.00	$ 844,387.00
17. Planning	116,282.00	92,473.00	96,171.00	100,019.00
18.				
19.				
20. TOTAL (sum of lines 16 - 19)	$ 1,406,585.00	$ 873,159.00	$ 908,082.00	$ 944,406.00

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:

22. Indirect Charges: Provisional: $7,300,000 base, $2,200,000 indirect.

23. Remarks: Section E, 16-17 Fifth year can be found in the Mapping Budget file found in the Budget Narrative File(s) section.

IOWA'S MAPPING BUDGET NARRATIVE

The collaborative Connect Iowa effort is a partnership between Iowa Utilities Board and Connected Nation. Connect Iowa demonstrates a solid, effective partnership capable of optimally leveraging the immense opportunity presented by this NTIA's broadband mapping grant program. In developing a project budget, Connect Iowa closely coordinated with the Iowa Utilities Board to develop an informed budget guided by prior experience and supported by financing through documented in-kind support.

Connect Iowa has employed a deliberate and thoughtful methodology to develop a cost model based on well established historical precedent with similar mapping projects in other states to actuate the Iowa State Broadband Data and Development Program (SBDD) project budget. As a Connected Nation affiliate, Connect Iowa will benefit from its parent company's rich program history adjusted for consideration of the enhanced project scope and compressed timeline for deliverables requested by the NTIA. Budget assumptions have been driven by three high-level project areas: provider and community outreach enabling data acquisition; technical expertise necessary for data encoding and mapping; and reliable measures for data validation. In order to accommodate the compressed timeframe for data delivery as outlined in the NOFA, Connected Nation began significant project related, pre-award work in the State of Iowa. As a result, if the enclosed grant application is successful, Connected Nation anticipates requesting reimbursement for pre-award costs effective as of February 17, 2009, the date of the NOFA release.

Mapping	**Federal**	**Non-Federal**	**Total**
Personnel			
GIS Staff	$ 597,572	$ -	$ 597,572
Data Gathering Staff	506,490	-	506,490
Collaborations Staff	107,126	20,922	128,048
Project Management Staff	274,066	209,024	483,090
Research Staff	44,834	-	44,834
Total Personnel	1,530,088	229,946	1,760,034
Fringe Benefits	382,524	57,489	440,013
Travel	264,949	-	264,949
Equipment	137,508	-	137,508
Supplies	95,300	-	95,300
Contractual	620,956	239,459	860,415
Other Line Items: Datasets	-	106,480	106,480
Other Line Items: Outreach	192,490	192,490	384,980
Indirect Cost	1,381,635	353,942	1,735,577
Total	**$ 4,605,450**	**$ 1,179,806**	**$ 5,785,256**
Percent of Total	79.61%	20.39%	

Costs associated with reliable data validation efforts are largely independent of state size, number of broadband providers. Expenses for outreach and data collection, as well as costs for data encoding and mapping are very directly related to the state population and the number of broadband providers. Having more providers translates directly to more data collection and more data mapping causing a higher expense. Connect Iowa has normalized these variable expenses by studying historical and empirical costs in prior broadband mapping projects with similar data collection approaches and dividing those costs by the number of broadband providers involved in those projects resulting in an historical average cost per provider. This normalized standard is then extended to Iowa to account for provider and community outreach costs based upon the number of broadband providers for that state.

The current costing model accounts for a provider relationship management cost of 0.5 hours of FTE time per provider with a reduced update expense of 0.25 FTE time per provider per update for relationship management. In addition, an initial expense of 1 hour of attorney time per provider initially to secure appropriate data sharing relationships with a reduced rate of 0.25 hours of attorney time for each update for ongoing intellectual property and other legal concerns associated with mapping and outreach. Data acquisition for community anchor institutions has also been contemplated as a part of outreach based upon state population, as population would most accurately reflect the number of those facilities which must be included in the project.

Like outreach, technical expertise expenses required for mapping have been driven by historical precedent of prior Connect Iowa mapping projects adjusted to accommodate the increased scope of the SBDD program's reporting expectations. Based upon the level of detail called for in the NOFA for the mapping program, Connect Iowa has projected the level of effort required for data encoding, mapping, and reporting to be generally 1.5x the per provider cost for previous mapping efforts. In addition, project coordination and management staffing resources have been budgeted to support on site operations as requested by the state. The data processing and mapping budget also reflects the budgetary impact of contractual resources required to be engaged on a short term basis to meet the compressed timeframe for the initial delivery of datasets.

Finally, reliable data validation is consistent with historical precedents. Statistically relevant telephone surveys, Internet inquiries and verification, and the other standardized validation measures employed are largely consistent and independent of a state's population or number of providers. As such, this general budget area has been contemplated as a similar cost scaled appropriately to achieve and exceed those validation measures required in the grant guidelines.

In consideration of this scaled, empirically based cost model, this grant proposal will seek a bottom line budget of $4,605,450 in federal grant funds for the 5-year mapping project from NTIA for the benefit of the State of Iowa. A non-federal, documented in-kind match will be provided from various sources of $1,179,806 making the total SBDD mapping project budget $5,785,256.

In order to gather the initial data, a significant effort must be undertaken to establish a legal relationship with each individual provider through Non-Disclosure Agreements and facilitate a data transfer in a format that is usable and able to satisfy the requirements of the NTIA. This greater level of effort, along with other up-front costs, is reflected in the first-year cost.

Role	Hourly Rate	Initial Hours (6 Months)	Update Hours (6 Months)	Initial Base Personnel Cost	Update Base Personnel Cost
GIS					
GIS Analyst	[redacted]				
GIS Manager					
GIS Consultants					
		Project Total	146,000	146,000	-
Data Gathering					
Engineering	[redacted]				
Engineering Consultants					
		Project Total	414,016	156,400	26,200
Collaboration Relations					
Communications	[redacted]				
Partner Relations					
Research Intern (CAI work)					
Legal-General					
		Project Total	195,730	56,600	14,150
Project Management					
Project Coordinator	[redacted]				
Project Management					
Research					
Research Analyst	[redacted]				
Research Intern					
Chief Analyst					
Research Consultant					
			Project Total		9,100.00

Total Employee Hours	4,870	4,334
Total Employee FTE's	4.68	4.17
Total Contractor Hours	2,146	172
Total Contractor FTE's	2.06	0.17
Total Mapping Hours	7,015.27	4,505.73
Total Mapping FTE's	6.75	4.33

Personnel: Personnel costs primarily include a portion of CN employees' time necessary to fill the following roles related to outreach, data encoding/mapping and validation: Mapping: GIS Analysts and GIS Manager; Data Gathering, Updating & Data Validation: Wireless Business Analysts, Research Analysts; Collaboration: Strategic Partnerships staff, Public Relations Director and staff; Project Management, Coordination & Reporting: Project Management, Project Coordinator, Web-Hosting Management.

Personnel costs would account for nearly 9,000 personnel hours annually to provide the necessary long-term staff for the data collection efforts to identify, establish and maintain working relationships with all of Iowa's broadband providers; to collect and update the data in accordance with NTIA's mapping NOFA; to produce a statewide broadband availability map; to establish data verifiability protocols to ensure accuracy of data and continual testing and checking of mapping data; to manage data update gathering and reporting; to develop and undertake a targeted media campaign to build awareness of consumer's ability to test their broadband speed; to process provider specific information to fulfill the NTIA reporting requirements; to provide periodic reports to the State of Iowa; and for overall project management and coordination. While actual salaries vary according to the skill sets and market environment for the given positions, the anticipated average base salary of the primary positions involved is approximately $70,000 per year. This baseline of compensation will ensure this collaborative partnership can assemble a qualified team to meet the challenges and full take advantage of all opportunities presented by this program for the benefit of the State of Iowa.

The total personnel costs are $1,760,034: $1,530,088, from federal sources, and $229,946 provided in-kind by the State of Iowa. Non-state personnel costs include a 4% cost of living adjustment annually.

Fringe Benefits: Fringe benefits are estimated to be 25% of the total personnel costs. The cost of fringe benefits included over the life of this grant is $440,013. The amount requested from federal sources is $382,524: $57,489 as an in-kind contribution from the State of Iowa.

Travel: Travel costs are comprised of mileage, meals, airfare, and hotel accommodation, as well as rental car and associated fuel costs necessary to meet the requirements of the NOFA. Other miscellaneous travel costs may also be included in this category, as needed. Mileage costs would be paid at the applicable standard federal rate which is currently $.55 per mile; meal costs are estimated at $45 per day based on the current standard federal per diem rate; airfare costs are based on an average of $500 per round-trip flight; hotel costs are based on an average of $200 per night; and rental car and associated fuel costs are based on an average of $90 per day. All travel costs include a 4% annual inflation adjustment. The total travel costs are projected to be $264,949, all from federal sources.

Equipment: [redacted]



The total equipment costs are projected to be $137,508, all from federal sources. All equipment costs include a 4% annual inflation adjustment.

Supplies: Supply costs include, but are not limited to, office supplies and office expense costs as well as costs for postage, printing, telephone and other similar items directly related to the implementation of this program. The supplies budget includes an initial amount of $4,850 for each FTE for small equipment (employee specific such as a laptop, desk, chair, etc.) as well as $250 per month per FTE for office supplies, small equipment replacement cost or other necessary costs as detailed above or project specific miscellaneous cost. The total supply costs are projected to be $95,300 all from federal sources. Annual supply costs include a 4% annual inflation adjustment.

Contractual: Contractual costs include provisions for sub-contractors as needed to provide the necessary support to our GIS, Data Gathering, or other personnel in order to meet the requirements in the NOFA. The estimated consultant cost related to GIS consultants needed to produce the NOFA compliant maps delivered in November, February and March is $146,000 all from federal sources. We do not expect to engage GIS consultants on a continuing basis to support update costs for data validation, but we will engage consultants as needed to ensure the successful delivery of the project.

The estimated consultant cost related to data gathering and validation needed to produce the NOFA compliant maps delivered in November, February and March is $156,400 semi-annual update costs totaling $26,200. This translates to a total cost over the life of the project of $414,016. Additionally, we would expect to employ contractual vendors who recognize the civic value of this worthy project and as such would be willing to donate a portion of their services to the project as an in-kind contribution up to and including potentially a donation of 1 hour for every 1 hour paid. As such, half of the above listed amounts would be in-kind contributions.

Contractual costs also include the legal expertise essential to execute the Non-Disclosure Agreements with the providers. The estimated legal cost related to the legal agreements needed to produce the maps delivered in November, February and March are $56,600 with semi-annual update costs totaling $14,150: total cost over the life of the project of $195,730. Connect Iowa's attorney has committed to contribute an hour in-kind for every hour worked and as such half of the above listed amounts would be in-kind contributions.

A portion of the research surveys and research consultant costs are included in this category to provide consistent and relevant data validation. Annual research survey costs

are estimated at $42,460. Approximately 70% of the survey cost is included in the mapping budget for a project total of $160,984. In addition a research consultant will provide services over the life of the project totaling $9,100.

The total contractual costs are $860,415: $620,956 from federal sources, $239,459 from the State of Iowa. Connect Iowa has demonstrated the ability to engage consultants with the desire to contribute to the initiatives carried out by the non-profit organization. All contractual costs include a 4% cost of living adjustment annually.

Datasets: The State of Iowa will provide the following sets of data that have been collected using state resources to enhance the value and functionality of the broadband maps that will be created:

- Nearly compete Community Anchor Institution data
- State Owned Towers
- PSAP
- Aerial Imagery
- Land Use
- Dark Fiber Locations
- Updated Population Data
- State Owned/Operated Networks

The fair market value of these data sets is approximately $106,480.

Outreach: Included in the budget are costs necessary for Connect Iowa to develop an outreach and education campaign to build awareness of consumers' ability to validate the broadband mapping data through the interactive map and the broadband speed test. Other outreach efforts will be engaged as needed to support and fulfill the requirements of the grant. Outreach will continue throughout the life of the project but will have a concentrated effort in the first six months. Connect Iowa has demonstrated the ability to engage vendors with the desire to contribute to the initiatives carried out by the non-profit by contributing a one-to-one match on advertising. For this project, Connect Iowa will seek to partner with such vendors for Iowa's data validation. In-kind support letters are attached as a demonstration of the types of support Connect Iowa has received from vendors.

Total outreach costs are projected at $384,980: $192,490 from federal sources, $192,490 contributed in-kind from the State of Iowa. All outreach costs include a 4% annual inflation adjustment.

Indirect Cost: Indirect costs are included at a rate of 30%. These indirect costs included over the life of this grant are $1,735,577. The amount requested from federal sources is $1,381,635; $21,211 donated in-kind from Connect Iowa, and an in-kind contribution of Connected Nation. Indirect costs are those that will be incurred for common or joint objectives and cannot readily be identified with a particular direct cost objective.

Connected Nation, as Connect Iowa's parent company, will participate in the mapping and planning efforts for the State of Iowa. As such we are utilizing their proposed

indirect cost rate. In compliance with OMB Circular A-122, Connected Nation's indirect costs include items, when not associated directly with a project, such as telecommunications; printing; rent; utilities; depreciation; insurance; postage; hardware and software costs; general administration and other general expense; personnel cost of administrative, accounting and human resource employees; operation and maintenance expense; as well as grant compliance, grant financial reporting and auditing costs (when applicable).

Iowa's Planning Budget Narrative

Connect Iowa proposes to utilize planning funds to work collaboratively with the Iowa Utilities Board to achieve a number of the BDIA-related purposes as outlined in Section 5 below. Connect Iowa's cost proposal will seek $508,965 of federal grant funds for the 5-year planning project from NTIA for the benefit of the state of Iowa. A non-federal match will be provided from various sources of $127,682 making the total SBDD planning project budget of $636,647.

Planning	**Federal**	**Non-Federal**	**Total**
Personnel			
Broadband Planning Staff	$ 148,959	$ 71,500	$ 220,459
Research Staff	19,220	-	19,220
Total Personnel	168,179	71,500	239,679
Fringe Benefits	42,044	17,876	59,920
Travel	18,385	-	18,385
Equipment	47,761	-	47,761
Supplies	7,014	-	7,014
Contractual	72,892	-	72,892
Other Line Items: Datasets	-	-	-
Other Line Items: Outreach	-	-	-
Indirect Cost	152,690	38,306	190,996
Total	**$ 508,965**	**$ 127,682**	**$ 636,647**
Percent of Total	79.94%	20.06%	

Personnel: Personnel costs related to broadband planning staff total $239,679: $168,179 from federal funds and $71,500 contributed in-kind from the state of Iowa.

Fringe Benefits: Fringe benefits are estimated to be 25% of the total personnel costs. The cost of fringe benefits included over the life of this grant is $59,920. The amount requested from federal sources is $42,044 and $17,876 contributed in-kind from the State of Iowa.

Travel: Travel costs are comprised of mileage, meals, airfare, and hotel accommodation, as well as rental car and associated fuel costs necessary to meet the requirements of the

NOFA. Other miscellaneous travel costs may also be included in this category, as needed. Mileage costs would be paid at the applicable standard federal rate which is currently $.55 per mile; meal costs are estimated at $45 per day based on the current standard federal per diem rate; airfare costs are based on an average of $500 per round-trip flight; hotel costs are based on an average of $200 per night; and rental car and associated fuel costs are based on an average of $90 per day. All travel costs include a 4% annual inflation adjustment. The total travel costs are projected to be $18,385, all from federal sources.

Equipment: [redacted] The total equipment costs are projected to be $47,761, all from federal sources. All equipment costs include a 4% annual inflation adjustment.

Supplies: Supply costs include, but are not limited to, office supplies and office expense costs as well as costs for postage, printing, telephone and other similar items directly related to the implementation of this program. The supplies budget includes an initial amount of $4,850 for each FTE for small equipment (employee specific such as a laptop, desk, chair, furniture, etc.) as well as $250 per month per FTE for office supplies, small equipment replacement cost or other necessary costs as detailed above or project specific miscellaneous cost. The total supply costs are projected to be $7,014 all from federal sources. Annual supply costs include a 4% annual inflation adjustment.

Contractual: Contractual costs include provisions for hiring sub-contractors with specialized expertise in accomplishing the purpose and focus areas mentioned above. The total contractual costs over the life of this grant total $72,892, all from federal sources.

Indirect Cost: Indirect costs are included at a rate of 30%. These indirect costs included over the life of this grant are $190,996, all from the State of Iowa. The amount requested from federal sources is $152,690 with an amount projected of $38,306 to be contributed in-kind by Connect Iowa. Indirect costs are those that will be incurred for common or joint objectives and cannot readily be identified with a particular direct cost objective and cannot readily be identified with a particular direct cost objective. In compliance with OMB Circular A-122, Connect Iowa's indirect costs include items, when not associated directly with a project, such as telecommunications; printing; rent; utilities; depreciation; insurance; postage; hardware and software costs; general administration and other general expense; personnel cost of administrative, accounting and human resource employees; operation and maintenance expense; as well as grant compliance, grant financial reporting and auditing costs (when applicable).

Connected Nation
Iowa Mapping & Planning Budget
State Broadband Data & Development Program

Mapping	Federal	Non-Federal	Total
Personnel			
GIS Staff	$ 597,572	$ -	$ 597,572
Data Gathering Staff	506,490	-	506,490
Collaborations Staff	107,126	20,922	128,048
Project Management Staff	274,066	209,024	483,090
Research Staff	44,834	-	44,834
Total Personnel	1,530,088	229,946	1,760,034
Fringe Benefits	382,524	57,489	440,013
Travel	264,949	-	264,949
Equipment	137,508	-	137,508
Supplies	95,300	-	95,300
Contractual	620,956	239,459	860,415
Other Line Items: Datasets	-	106,480	106,480
Other Line Items: Outreach	192,490	192,490	384,980
Indirect Cost	1,381,635	353,942	1,735,577
Total	**$ 4,605,450**	**$ 1,179,806**	**$ 5,785,256**
Percent of Total	79.61%	20.39%	

Planning	Federal	Non-Federal	Total
Personnel			
Broadband Planning Staff	$ 148,959	$ 71,500	$ 220,459
Research Staff	19,220	-	19,220
Total Personnel	168,179	71,500	239,679
Fringe Benefits	42,044	17,876	59,920
Travel	18,385	-	18,385
Equipment	47,761	-	47,761
Supplies	7,014	-	7,014
Contractual	72,892	-	72,892
Other Line Items: Datasets	-	-	-
Other Line Items: Outreach	-	-	-
Indirect Cost	152,690	38,306	190,996
Total	**$ 508,965**	**$ 127,682**	**$ 636,647**
Percent of Total	79.94%	20.06%	

Connected Nation
Iowa Mapping & Planning Budget By Year
State Broadband Data & Development Program

	Year 1			Year 2			Year 3			Year 4			Year 5			Grand Total		
Mapping	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**
Personnel																		
GIS Staff	$ 113,888	$ -	$ 113,888	$ 113,903	$ -	$ 113,903	$ 118,459	$ -	$ 118,459	$ 123,197	$ -	$ 123,197	$ 128,125	$ -	$ 128,125	$ 597,572	$ -	$ 597,572
Data Gathering Staff	93,512	-	93,512	97,252	-	97,252	101,142	-	101,142	105,188	-	105,188	109,396	-	109,396	506,490	-	506,490
Collaborations Staff	27,456	20,922	48,378	18,762	-	18,762	19,512	-	19,512	20,292	-	20,292	21,104	-	21,104	107,126	20,922	128,048
Project Management Staff	50,600	55,576	106,176	52,624	38,362	90,986	54,729	38,362	93,091	56,918	38,362	95,280	59,195	38,362	97,557	274,066	209,024	483,090
Research Staff	8,278	-	8,278	8,609	-	8,609	8,953	-	8,953	9,311	-	9,311	9,683	-	9,683	44,834	-	44,834
Total Personnel	293,734	76,498	370,232	291,150	38,362	329,512	302,795	38,362	341,157	314,906	38,362	353,268	327,503	38,362	365,865	1,530,088	229,946	1,760,034
Fringe Benefits	73,434	19,125	92,559	72,788	9,591	82,379	75,699	9,591	85,290	78,727	9,591	88,318	81,876	9,591	91,467	382,524	57,489	440,013
Travel	85,229	-	85,229	42,322	-	42,322	44,015	-	44,015	45,776	-	45,776	47,607	-	47,607	264,949	-	264,949
Equipment	50,063	-	50,063	20,592	-	20,592	21,416	-	21,416	22,273	-	22,273	23,164	-	23,164	137,508	-	137,508
Supplies	36,675	-	36,675	13,806	-	13,806	14,358	-	14,358	14,932	-	14,932	15,529	-	15,529	95,300	-	95,300
Contractual	304,077	162,076	466,153	74,622	18,223	92,845	77,607	18,952	96,559	80,711	19,710	100,421	83,939	20,498	104,437	620,956	239,459	860,415
Other Line Items: Datasets	-	106,480	106,480	-	-	-	-	-	-	-	-	-	-	-	-	-	106,480	106,480
Other Line Items: Outreach	60,000	60,000	120,000	31,200	31,200	62,400	32,448	32,448	64,896	33,746	33,746	67,492	35,096	35,096	70,192	192,490	192,490	384,980
Indirect Cost	387,091	181,791	568,882	234,206	41,733	275,939	243,573	42,580	286,153	253,316	43,461	296,777	263,449	44,377	307,826	1,381,635	353,942	1,735,577
Total	**$ 1,290,303**	**$ 605,970**	**$ 1,896,273**	**$ 780,686**	**$ 139,109**	**$ 919,795**	**$ 811,911**	**$ 141,933**	**$ 953,844**	**$ 844,387**	**$ 144,870**	**$ 989,257**	**$ 878,163**	**$ 147,924**	**$ 1,026,087**	**$ 4,605,450**	**$ 1,179,806**	**$ 5,785,256**

	Year 1			Year 2			Year 3			Year 4			Year 5			Grand Total		
Planning	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**	**Federal**	**Non-Federal**	**Total**
Personnel																		
Broadband Planning Staff	$ 27,502	$ 14,300	$ 41,802	$ 28,602	$ 14,300	$ 42,902	$ 29,746	$ 14,300	$ 44,046	$ 30,936	$ 14,300	$ 45,236	$ 32,173	$ 14,300	$ 46,473	$ 148,959	$ 71,500	$ 220,459
Research Staff	3,548	-	3,548	3,690	-	3,690	3,838	-	3,838	3,992	-	3,992	4,152	-	4,152	19,220	-	19,220
Total Personnel	31,050	14,300	45,350	32,292	14,300	46,592	33,584	14,300	47,884	34,928	14,300	49,228	36,325	14,300	50,625	168,179	71,500	239,679
Fringe Benefits	7,762	3,576	11,338	8,073	3,575	11,648	8,396	3,575	11,971	8,732	3,575	12,307	9,081	3,575	12,656	42,044	17,876	59,920
Travel	4,662	-	4,662	3,232	-	3,232	3,361	-	3,361	3,495	-	3,495	3,635	-	3,635	18,385	-	18,385
Equipment	21,825	-	21,825	6,108	-	6,108	6,352	-	6,352	6,606	-	6,606	6,870	-	6,870	47,761	-	47,761
Supplies	2,640	-	2,640	1,030	-	1,030	1,071	-	1,071	1,114	-	1,114	1,159	-	1,159	7,014	-	7,014
Contractual	13,458	-	13,458	13,996	-	13,996	14,556	-	14,556	15,138	-	15,138	15,744	-	15,744	72,892	-	72,892
Other Line Items: Datasets	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Line Items: Outreach	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indirect Cost	34,885	7,662	42,547	27,742	7,661	35,403	28,851	7,661	36,512	30,006	7,661	37,667	31,206	7,661	38,867	152,690	38,306	190,996
Total	**$ 116,282**	**$ 25,538**	**$ 141,820**	**$ 92,473**	**$ 25,536**	**$ 118,009**	**$ 96,171**	**$ 25,536**	**$ 121,707**	**$ 100,019**	**$ 25,536**	**$ 125,555**	**$ 104,020**	**$ 25,536**	**$ 129,556**	**$ 508,965**	**$ 127,682**	**$ 636,647**

Connected Nation
Iowa Mapping & Planning In-Kind Budget
State Broadband Data & Development Program

Mapping	Year 1	Year 1	Year 1	Year 2	Year 3	Year 4	Year 5	Grand Total
Personnel								
GIS Staff	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Data Gathering Staff	-	-	-	-	-	-	-	-
Collaborations Staff	20,922	-	20,922	-	-	-	-	20,922
Project Management Staff	27,788	27,788	55,576	38,362	38,362	38,362	38,362	209,024
Research Staff	-	-	-	-	-	-	-	-
Total Personnel	48,710	27,788	76,498	38,362	38,362	38,362	38,362	229,946
Fringe Benefits	12,178	6,947	19,125	9,591	9,591	9,591	9,591	57,489
Travel	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-
Supplies	-	-	-	-	-	-	-	-
Contractual	144,554	17,522	162,076	18,223	18,952	19,710	20,498	239,459
Other Line Items: Datasets	106,480	-	106,480	-	-	-	-	106,480
Other Line Items: Outreach	45,000	15,000	60,000	31,200	32,448	33,746	35,096	192,490
Indirect Cost-CN In-Kind	151,009	26,866	177,875	37,660	38,344	39,056	39,796	332,731
Indirect Cost-State In-Kind	1,958	1,958	3,916	4,073	4,236	4,405	4,581	21,211
Total	**$ 509,889**	**$ 96,081**	**$ 605,970**	**$ 139,109**	**$ 141,933**	**$ 144,870**	**$ 147,924**	**$ 1,179,806**

Planning	Year 1	Year 1	Year 1	Year 2	Year 3	Year 4	Year 5	Grand Total
Personnel								
Broadband Planning Staff	$ 7,150	$ 7,150	$ 14,300	$ 14,300	$ 14,300	$ 14,300	$ 14,300	$ 71,500
Research Staff	-	-	-	-	-	-	-	-
Total Personnel	7,150	7,150	14,300	14,300	14,300	14,300	14,300	71,500
Fringe Benefits	1,788	1,788	3,576	3,575	3,575	3,575	3,575	17,876
Travel	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-
Supplies	-	-	-	-	-	-	-	-
Contractual	-	-	-	-	-	-	-	-
Other Line Items: Datasets	-	-	-	-	-	-	-	-
Other Line Items: Outreach	-	-	-	-	-	-	-	-
Indirect Cost-CN In-Kind	3,831	3,831	7,662	7,661	7,661	7,661	7,661	38,306
Indirect Cost-State In-Kind	-	-	-	-	-	-	-	-
Total	**$ 12,769**	**$ 12,769**	**$ 25,538**	**$ 25,536**	**$ 25,536**	**$ 25,536**	**$ 25,536**	**$ 127,682**

ERIC MILLS
ATTORNEY AT LAW

1836 Main Street
Post Office Box 2057
Inez, Kentucky 41224

(606) 298-0505
fax (606) 298-5157
www.ericmills.com

August 14, 2009

Assistant Secretary
National Telecommunications and Information Administration
U.S. Department of Commerce
Washington, D.C. 20230

Dear Sir:

We are general counsel for Connected Nation, Inc., (the "Applicant.") In such capacity, we acted as counsel to the Applicant in connection with its ability to apply to the Broadband Technology Opportunities Program and in the review of the grant agreement, as referenced in the Notice of Funds Availability.

We are of the opinion that:

(a) The Applicant is a duly organized and existing non-profit liability corporation organized under the laws of the State of Kentucky, and is duly licensed and qualified and in good standing as a domestic corporation in the State of Kentucky.

(b) The Applicant has corporate power: (1) to execute and deliver the agreement; and (2) to perform all acts required to be done by it under said agreement.

(c) No legal proceedings have been instituted or are pending against the Applicant, the outcome of which would adversely affect the Applicant's ability to perform the duties under the grant agreement, and there are no judgments against the Applicant which would adversely affect the Applicant's ability to perform its duties under the grant agreement.

Very truly yours,

R. Eric Mills,
General Counsel

[redacted]

August 7, 2009

[redacted] agrees to provide services to Connected Nation in the form of graphic design, typesetting, pre-publishing, programming and other functions offered by [redacted] at a reduced rate of $[redacted] per hour for the term of 1 year [redacted] will also donate one hour of labor for every hour purchased through this partnership agreement. Special projects that require overtime and weekend labor may not be included in this agreement.

[redacted]

[redacted]

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

ROBERT B. BERNTSEN, CHAIR
KRISTA K. TANNER, BOARD MEMBER
DARRELL HANSON, BOARD MEMBER

August 14, 2009

Mr. Brian Mefford
Chairman & CEO
Connected Nation
4444 North Capitol Street, Suite 224
Washington, DC 20001

Dear Mr. Mefford:

This letter is to confirm that from February 17, 2009 through September 1, 2014, the State of Iowa will donate state government employee work time, office space, and data sets to the Iowa broadband mapping initiative. The total value of our contributed services for the mapping initiative is $426,506 along with an additional $72,726 for the broadband planning portion, as enumerated below.

Oversight and Research Support Staff for the Broadband Mapping and Planning Initiative

The State of Iowa will allocate, at a minimum, 5 full time staff members each spending an average of 7.8 percent of their work time providing oversight and support to the broadband mapping project. The cost of this staff work time, including salaries and benefits, will amount to $58,181 in the first year and $51,702 per year in the following four years for a total of $264,989 for the full length of the five-year program. Separately, these staff will spend an average of an additional 2 percent of their time providing oversight and support to the broadband planning portion of the initiative. The cost of this staff work time, including salaries and benefits, will amount to $14,545 per year for a total of $72,726 for the full length of the five-year program

Office Space for the Broadband Mapping and Planning Initiative

The average workspace square footage provided to state personnel in the State of Iowa is 244 square feet. The cost per square foot per year is $11.35. The State of Iowa will provide 244 square feet of office space at no cost to Connected Nation. This amounts to a total annual value of $2,769, or a total of $13,847 for the full length of the five-year program.

Data Sets
The State of Iowa will provide the following sets of data that have been collected using state resources to enhance the value and functionality of the broadband maps that will be created:

- Identification of Community Anchor Institutions
- State Owned Towers
- PSAP
- Aerial Imagery
- Dark Fiber Locations
- State Owned/Operated Networks

The fair market value of these data sets is approximately $106,480.

Broadband Governance Board (IUB Time Only)
The Iowa Utilities Board anticipates spending 230 hours supporting the Iowa Broadband Deployment Governance Board through the end of 2009, for a total value of $15,038.

Pre-Award Costs
In addition, total pre-award costs incurred by the Iowa Utilities Board to date are: $26,152.

Sincerely,

Robert B. Berntsen
Chair

Krista K. Tanner
Board Member

Darrell Hanson
Board Member

CONNECTED NATION.

WWW.CONNECTEDNATION.ORG

444 North Capitol St
Suite 224
Washington, DC 20001

1-877-846-7710

In-Kind Contribution Agreement

[redacted] will provide Connected Nation with broadband consultant services at the rate of $[redacted] per hour consistent with State Broadband Data and Development projects, unless such agreement is earlier terminated by either Party. Additionally, [redacted] ecognizes the charitable purposes of the projects in assisting states with economic development and other community development programs and therefore in support of such efforts will donate one hour of broadband consultant services for every hour paid through this partnership agreement.

Name of Company [redacted]

Signature

Printed Name

Title

Email Address

For this commitment, please indicate a company point of contact below:

Contact Name [redacted]

Address

City/State/Zip

Phone [redacted]

Primary Email address

Other Email addresses
(To receive periodic email) _____

_____

CONNECTED NATION.

WWW.CONNECTEDNATION.ORG

444 NORTH CAPITOL ST
SUITE 224
WASHINGTON, DC 20001
1-877-846-7719

In-Kind Contribution Agreement

[redacted] will provide Connected Nation with broadband consultant services at the rate of $[redacted] per hour consistent with State Broadband Data and Development projects, unless such agreement is earlier terminated by either Party. Additionally, [redacted] recognizes the charitable purposes of the projects in assisting states with economic development and other community development programs and therefore in support of such efforts will donate one hour of broadband consultant services for every hour paid through this partnership agreement.

Name of Company

Signature

Printed Name

Title

Email Address

[redacted]

For this commitment, please indicate a company point of contact below:

Contact Name

Address

City/State/Zip

Phone [redacted] **Fax** (___

Primary Email address

Other Email addresses
(To receive periodic email)

[redacted]

_____

_____

CONNECTED NATION®

WWW.CONNECTEDNATION.ORG

444 North Capitol St
Suite 224
Washington, DC 20001

1-877-846-7710

In-Kind Contribution Agreement

[redacted] will provide Connected Nation with broadband consultant services at the rate of $[redacted] per hour consistent with State Broadband Data and Development projects, unless such agreement is earlier terminated by either Party. Additionally [redacted] ecognizes the charitable purposes of the projects in assisting states with economic development and other community development programs and therefore in support of such efforts will donate one hour of broadband consultant services for every hour paid through this partnership agreement.

Name of Company

Signature

Printed Name

Title

Email Address

[redacted]

For this commitment, please indicate a company point of contact below:

Contact Name

Address

City/State/Zip

Phone [redacted]

Primary Email address

Other Email addresses
(To receive periodic email)

[redacted]

CHESTER J. CULVER
GOVERNOR

OFFICE OF THE GOVERNOR

PATTY JUDGE
LT. GOVERNOR

August 13, 2009

The Honorable Lawrence E. Strickling
Assistant Secretary for Communications and Information
U.S. Department of Commerce
National Telecommunications and Information Administration
Herbert C. Hoover Building
1401 Constitution Avenue NW
Washington, D.C. 20230

Dear Assistant Secretary Strickling:

I hereby designate the Iowa Utilities Board as the appropriate authority within the State of Iowa to select the third party entity to submit the State's proposal to the National Telecommunications and Information Administration (NTIA) notice of funds availability (NOFA) for broadband mapping. This designation is being made per the guidance received by the State from the Office of the Secretary, United States Department of Commerce.

Sincerely,

Chester J. Culver
Governor of Iowa

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

ROBERT B. BERNTSEN, CHAIR
KRISTA K. TANNER, BOARD MEMBER
DARRELL HANSON, BOARD MEMBER

August 7, 2009

Mr. Lawrence E. Strickling
Assistant Secretary for Communications and Information
U.S. Department of Commerce
National Telecommunications and Information Administration
Herbert C. Hoover Building (HCHB)
U.S. Department of Commerce/NTIA
1401 Constitution Avenue N.W.
Washington, D.C. 20230

Dear Secretary Strickling:

The Governor of the State of Iowa has duly authorized the Iowa Utilities Board to designate the single eligible entity in Iowa to receive a grant from the State Broadband Data and Development Grant Program.

This letter serves to affirm that the Iowa Utilities Board has designated Connected Nation, Inc., by and through its wholly-owned subsidiary Connect Iowa, LLC, as the State of Iowa's single entity under the State Broadband Data and Development Grant Program pursuant to P.L. 110-385 and the Broadband Data Improvement Act [Section 106, subsection (i)(2)(B)] eligible to receive a grant under this Program. The application filed by Connected Nation demonstrates how state agencies, including the Iowa Broadband Governance Board and the Iowa Utilities Board, will be collaborating on the mapping and mapping planning efforts.

Sincerely,

Rob Berntsen
Chairman

FORM **CD-511**
(REV 1-05)

U.S. DEPARTMENT OF COMMERCE

CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, 'New Restrictions on Lobbying.' The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over $100,000 or a loan or loan guarantee over $150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying.' in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure occurring on or before October 23, 1996, and of not less than $11,000 and not more than $110,000 for each such failure occurring after October 23, 1996.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, 'Disclosure Form to Report Lobbying,' in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure occurring on or before October 23, 1996, and of not less than $11,000 and not more than $110,000 for each such failure occurring after October 23, 1996.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.

* NAME OF APPLICANT

Connected Nation, Inc.

* AWARD NUMBER

0660-ZA29

* PROJECT NAME

State Broadband Data and Development Grant Program

Prefix: Mr.

* First Name: Brian

Middle Name:

* Last Name: Mefford

Suffix:

* Title: Chairman & CEO

* SIGNATURE: Brian Mefford

* DATE: 08/14/2009

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C.1352

Approved by OMB
0348-0046

1. * Type of Federal Action:
- [ ] a. contract
- [x] b. grant
- [ ] c. cooperative agreement
- [ ] d. loan
- [ ] e. loan guarantee
- [ ] f. loan insurance

2. * Status of Federal Action:
- [ ] a. bid/offer/application
- [x] b. initial award
- [ ] c. post-award

3. * Report Type:
- [x] a. initial filing
- [ ] b. material change

4. Name and Address of Reporting Entity:

[x] Prime [ ] SubAwardee

*Name: N/A

*Street 1: N/A Street 2:

*City: N/A State: Zip:

Congressional District, if known:

5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:

6. * Federal Department/Agency: N/A

7. * Federal Program Name/Description:

CFDA Number, *if applicable:*

8. Federal Action Number, *if known:*

9. Award Amount, *if known:*

$

10. a. Name and Address of Lobbying Registrant:

Prefix: * First Name: N/A Middle Name:

* Last Name: N/A Suffix:

* Street 1: Street 2:

* City: State: Zip:

b. Individual Performing Services (including address if different from No. 10a)

Prefix: * First Name: N/A Middle Name:

* Last Name: N/A Suffix:

* Street 1: Street 2:

* City: State: Zip:

11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

*** Signature:** Brian Mefford

***Name:** Prefix: * First Name: N/A Middle Name:

* Last Name: N/A Suffix:

Title: **Telephone No.:** **Date:** 08/14/2009

Federal Use Only:

Authorized for Local Reproduction
Standard Form - LLL (Rev. 7-97)

OMB Approval No.: 4040-0007
Expiration Date: 07/30/2010

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C.§§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U. S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	* TITLE
Brian Mefford	Chairman & CEO
* APPLICANT ORGANIZATION	* DATE SUBMITTED
Connected Nation, Inc.	08/14/2009

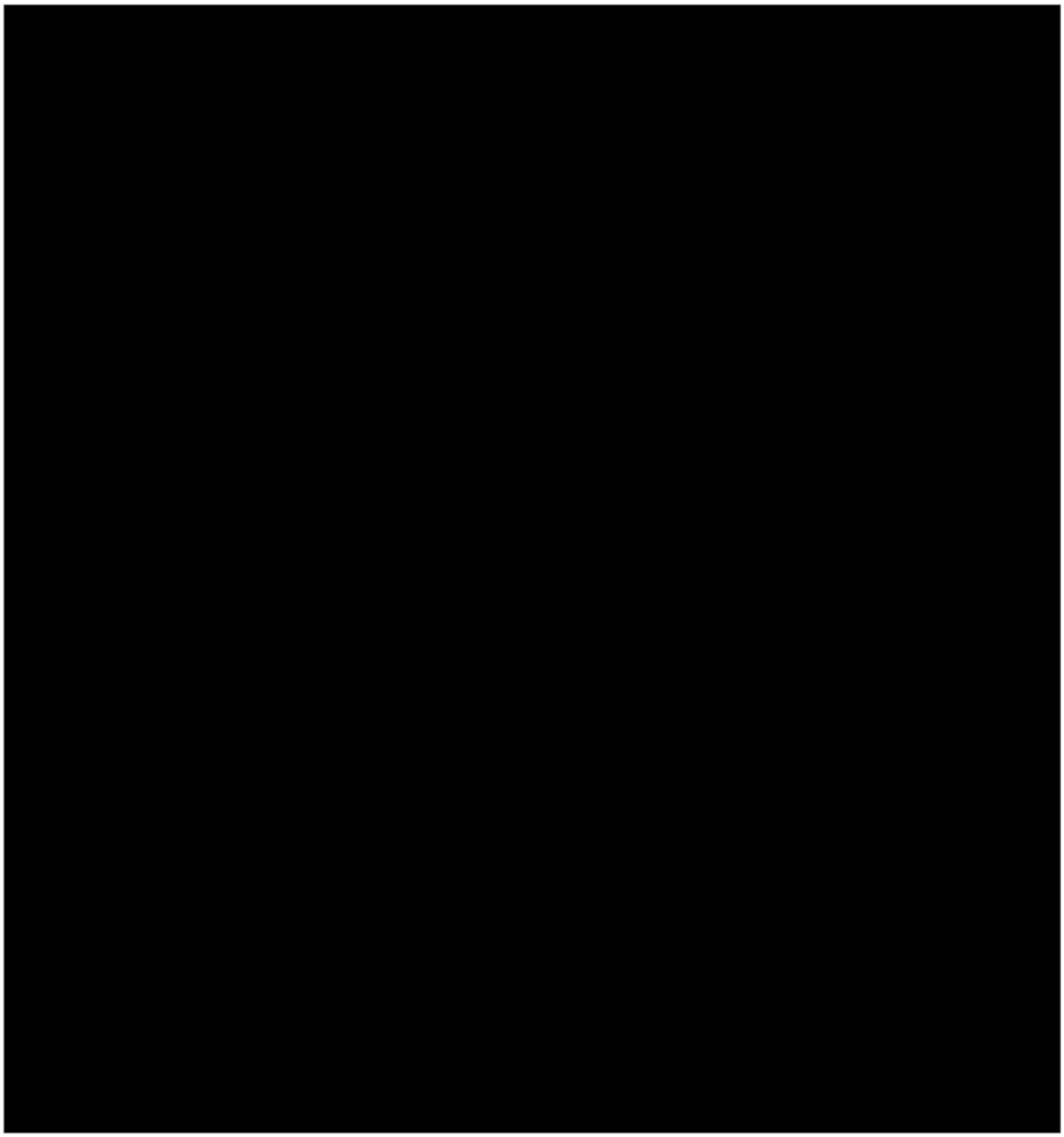
Standard Form 424B (Rev. 7-97) Back

CONNECTED NATION

STATE OF IOWA
MAPPING NARRATIVE

Personnel Salaries: For each position allocated to the projects, provide a description of the position responsibilities, annual salary, and percentage of time dedicated to this project for Year 1 and Year 2. Please ensure that costs are clear for both Years 1 and 2, as opposed to both years cumulatively.

Unless otherwise specifically stated, personnel costs are requested from federal sources.



6 Pages

Withheld in their entirety pursuant to FOIA Exemption 4 (5 U.S.C. § 552 (b)(4))

The total cost for personnel salaries for year 1 is $205,735. Of this amount, $31,980 is an in-kind contribution from the State of Iowa and $173,755 is the requested federal share. The total cost for personnel salaries in year 2 is $188,586. Of this amount, $7,824 is an in-kind contribution from the State of Iowa and $180,702 is the requested federal share.

Through 12/31/09, CN has incurred pre-award costs related to personnel costs totaling $15,579.48, $13,890.10 to be paid from federal sources and $1,689.38 from in-kind contributions.

Connected Nation may utilize other employees as needed to fulfill the requirements of this project.

Personnel Fringe Benefits: For each position allocated to the projects, provide the cost for fringe benefits, if available.

Fringe Benefits

Fringe Benefits are projected as a percentage of the personnel's annual salary calculated as follows: Employer's FICA Tax (7.65%), Unemployment Tax (.5%), Health/Dental/Vision Insurance (5.7%), Disability & Life Insurance (.6%), Accrued Paid Time Off (3.6%), SIMPLE match (3%), Gym benefit (.1%), and Professional Development (.3%). The total projected percentage cost will be 21.45% of the personnel salaries. The projected fringe benefit cost for CN staff for year 1 is $37,271 and year 2 is $38,761.

State of Iowa benefits for the State of Iowa staff are $9,430 for year 1 and $2,311 for year 2, all paid through an in-kind contribution from the state.

Through 12/31/09 CN has incurred pre-award costs related to fringe benefit costs totaling $3,341.79, $2,979.42 to be paid from federal sources and $362.37 from in-kind contributions.

Travel: Provide additional information such that the basis for all figures is clear. For example, if assuming airplane travel, provide an estimated cost for each roundtrip ticket and how many trips are expected. For mileage, provide an estimate of how many miles are expected and how many trips, etc.

Projected Travel Costs

Airplane travel cost is projected to be $500 per roundtrip with 53 trips expected in year 1 for a total cost of $26,500 and 24 trips in year 2 for a total cost of $12,480. All travel costs for year 2 reflect a 4% inflation adjustment. Hotel room cost is projected to be $200 per room with 135 nights' occupancy in year 1 for a total cost of $27,000 and with 58 nights' occupancy in year 2 for a total cost of $12,064. Rental car expense is projected to be $90 per day with 188 days projected rental in year 1 for a total cost of $16,920 and with 82 days projected rental in year 2 for a total cost of $7,675. Per diem allowance for meals is projected at $45 per day based on the current standard federal per diem rate, with 188 days of travel in year 1 for a total cost of $8,460 and with 82 days of travel in year 2 for a total cost of $3,838. Mileage travel cost is projected at $.55 per mile, the current applicable

standard federal rate, and average trips of 120 miles with 53 expected trips in year 1 for a total cost of $3,498 and 24 expected trips in year 2 for a total cost of $1,647.

The Iowa travel costs consist of planned trips by 5 different categories of employees or consultants:

- Engineers travel includes 41 trips (4 days, 3 nights) in year 1 and 17 trips (4 days, 3 nights) in year 2 for data gathering and validation. This includes airfare from Kentucky to Iowa, rental car, hotel, per diem, and mileage to and from the airport.

- Sr. Manager, GIS Services travel includes 2 trips (2 days, 1 night) in year 1 and 2 trips (2 days, 1 night) in year 2. This includes airfare from Kentucky to Iowa, rental car, hotel, per diem, and mileage to and from the airport.

- Stakeholder Relations travel includes 3 trips (2 days, 1 night) in year 1 for stakeholder relations. This includes airfare primarily from Kentucky to Iowa, rental car, hotel, per diem, and mileage to and from the airport.

- Communications travel includes 2 trips (2 days, 1 night) in year 1 and 2 trips (2 days, 1 night) in year 2 for communications, outreach, and education efforts in the state. This includes airfare from Kentucky to Iowa, rental car, hotel, per diem, and mileage to and from the airport.

- Project Manager travel includes 5 trips (2 days, 1 night) in year 1 and 3 trips (2 days, 1 night) in year 2 for project oversight and stakeholder relations. This would include an airfare from Kentucky to Iowa, rental car, hotel, per diem, and mileage to and from the airport.

Through 12/31/09, CN has incurred pre-award costs related to travel costs totaling $2,670.99, $2,576.51 to be paid from federal sources and $94.48 from an in-kind contribution.

Connected Nation may incur additional travel expenses as needed to fulfill the requirements of this project.

Equipment: For hardware costs, provide a detailed description of all equipment to be purchased, when it will be purchased in the first two years, and the basis for the figures used.

Equipment

BroadbandSTAT is the next generation in broadband mapping, providing a comprehensive mapping portal for states to manage broadband stimulus projects and activities through the ARRA. Using ESRI's ArcGIS Server and its API mapping technologies to incorporate broadband mapping and survey data with demographic and topographic data from ESRI, the Census Bureau, and other reputable data sources, BroadbandSTAT provides not only a user-friendly GIS viewer to understand and track broadband deployment over time, it also provides an analytical tool for prioritizing unserved and underserved areas, evaluating and

tracking stimulus projects, and enabling taxpayers with full transparency and accountability of broadband stimulus funding in their state. BroadbandSTAT empowers states to:

- Leverage the best-of-class, geographic informatics for broadband decision-making
- Build and evaluate scenarios to help score and prioritize broadband proposals
- Provide data-based support for effective grant-making
- Facilitate project investment tracking over time
- Provide access-based tools that are relevant and meaningful for specific audiences, including government agencies, consumers, community leaders, broadband providers, and media

[redacted]

ESRI ArcInfo and ArcGIS software will be purchased and used to map the broadband and Community Anchor Institution data received. ESRI is the industry leader in GIS software. ArcInfo and other ESRI resources will allow Connected Nation to process the multitude of data formats that are received from the various broadband providers who have different

[redacted]

Connected Nation may purchase other equipment as needed to fulfill the requirements of this project.

Materials/Supplies:

- ***For software costs, provide a detailed description of all equipment to be purchased, when they will be purchased in the first two years, and the basis for the figures used.***
- ***For all supplies expected to be purchased, please provide the information such that the basis for figures is clear.***

Materials/Supplies

Two computers will be purchased to process the large amounts of GIS data received in this project. The computers and their associated equipment and software will be purchased for $3,000 each in the first year of the project for a total cost of $6,000.

Computers and peripheral equipment and software will be purchased for use on this project. Four computers and their associated equipment and software will be purchased for $2,500 each. Two computers will be purchased in year 1 for a total cost of $5,000 and two will be purchased in year 2 for a total cost of $5,000.

Connected Nation will estimate typical download and upload speeds using information on actual speeds gathered through volunteer consumer-led, online speed tests. [redacted]

[redacted]

Through 12/31/09, CN has incurred pre-award costs related to materials and supplies totaling $3,001.38 all of which is requested from federal sources.

Connected Nation may purchase other materials and supplies as needed to fulfill the requirements of this project.

Subcontracts: For any significant subcontract, please provide the cost allocation in a format similar to the one listed directly above. Your current contractor budget only allocates personnel hours. If the contractor will be purchasing any equipment, performing any travel, etc. that should be clearly delineated.

Subcontracts

Connected Nation will work with GIS contractors to convert the various data types that providers will have to submit so that it will be processed and converted into a format that can conform to the prescribed federal requirements. This work will include the conversion of imagery, hard copy data, and infrastructure data that otherwise could not provide the data being requested. [redacted]

Connected Nation will utilize Engineering Contractors to help in the data collection, solicitation, and development work. These Engineers will primarily work with the fixed wireless providers in states that often do not have engineering departments and thus are unable to provide the type of data necessary to accurately depict where their broadband services are available. These Engineers will also provide additional support where necessary with other broadband providers with whom their individual expertise is deemed helpful in the data collection. Engineers engaged to date on this project are as follows:

- [redacted]
- [redacted]
- [redacted]

Connected Nation utilizes attorneys to assist in the negotiations of Non-Disclosure Agreements with the broadband providers. [redacted]

Connected Nation will utilize Research Consultants to assist with the survey research design, data processing of survey results and verification of reporting. [redacted]

Research surveys will be conducted semi-annually in both years of the project to provide a third-party verification of the accuracy of the maps. We anticipate that the consultant cost will primarily be comprised of personnel costs. [redacted]



Through 12/31/09, CN has incurred pre-award costs related to subcontracts totaling $57,301.22, $49,345.14 to be paid from federal sources and $7,956.08 from in-kind contributions.

Connected Nation may engage other subcontractors as needed to fulfill the requirements of this project.

Other

Connected Nation will create an outreach campaign for the primary purpose of verification of data. CN will target media outlets in Iowa that can reach the greatest number of individuals in an outreach effort to drive them to Iowa's interactive maps and speed test tools. CN has been able to leverage outreach campaigns with media outlets in such way that for every outreach campaign it is expected 1 will be provided in-kind. We plan to target 4 outlets in year 1 and 2 outlets in year 2. The applicant share cost would be $10,000 in year1 and $5,200 in year 2. The federal share cost would be $10,000 in year 1 and $5,200 in year 2. The costs for year 2 reflect a 4% inflation adjustment. Total costs would be $20,000 and $10,400 for years 1 and 2 respectively.

Datasets will be provided in various formats including GIS-based files for Community Anchor Institutions as well as additional base map layers that are developed, maintained, and served by the state for inclusion and development of the states broadband map. The estimated value of the datasets is $106,480 which will be contributed as an in-kind contribution by the State of Iowa in year 1. This value is estimated based upon historical cost to build similar datasets in another state on a per capita basis and considering the percent of data captured in the dataset.

DataSet	ID	Aquire Data	Process	Total Hours	Cost PP	Iowa	
CAI	120	100	16	236	0.005185188	2,926,324	$ 15,173.54
Public Owned Towers	40	20	8	68	0.001494037	2,926,326	$ 4,372.04
PSAP	40	80	40	160	0.003515381	2,926,327	$ 10,287.16
Aerial				95	0.012523546	2,926,330	$ 36,648.03
Dark Fiber Location data							$ 20,000.00
State Owned Networks							$ 20,000.00
[redacted]							

Office space will be provided for Iowa. The average square footage provided to state personnel in the State of Iowa is 244. The cost per square footage is $11.35. The State of Iowa will provide 244 square feet of office space at no charge to Connected Nation. The applicant share cost would be $2,769 for year 1 and $2,769 for year 2.

Through 12/31/09, CN has incurred pre-award costs related to other expenses totaling $1,652.00, $366.50 to be paid from federal sources and $1,285.50 from in-kind contributions.

Indirect Costs

Indirect costs are included at a rate of approximately 43% of direct costs. While Connected Nation does not currently hold a federal indirect cost rate, CN has calculated its rate in anticipation of requesting an indirect cost rate from the Department of Commerce. Total indirect costs in year 1 are $339,467 with $ 10,479 contributed in-kind and $ 328,988 requested from federal sources. Total indirect costs for year 2 are $ 200,027 with $ 2,595 paid by the state and $ 197,432 requested from federal sources.

Through 12/31/09, the indirect cost percentage of 43% calculated on the direct pre-award costs total $35,925.15, $31,028.39 from federal sources and $4,896.76 in-kind contributions.

Applicant Capacity, Knowledge, and Experience:

1. ***As described in the NOFA, please provide a description of the knowledge and experience of the applicant and associated project personnel. If you have not yet hired for certain positions please provide a description of the qualifications and expected work activities for these positions.***

[redacted]

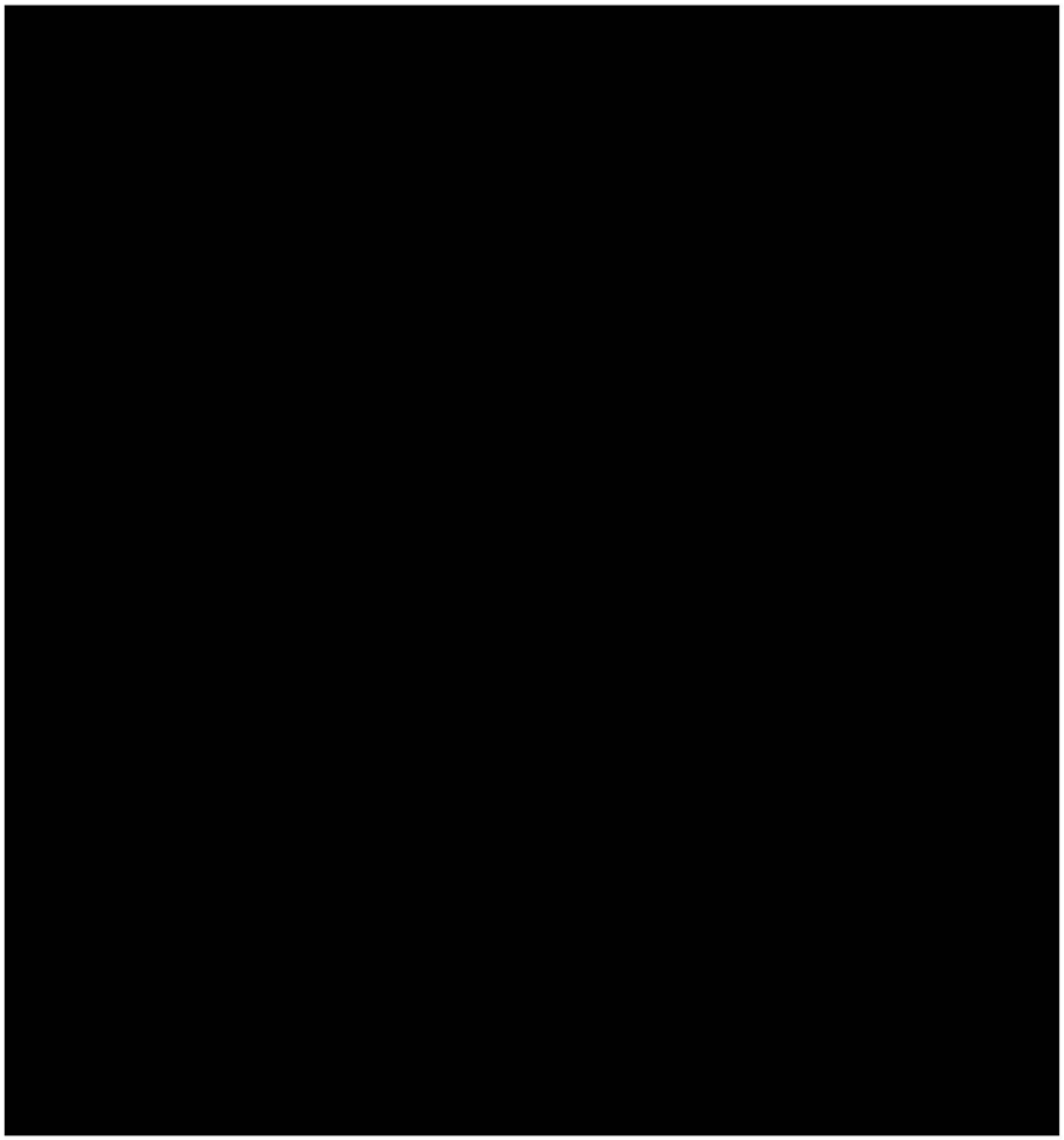
5 Pages

Withheld in their entirety pursuant to FOIA Exemption 4 (5 U.S.C. § 552 (b)(4))

STATE OF IOWA
PLANNING NARRATIVE

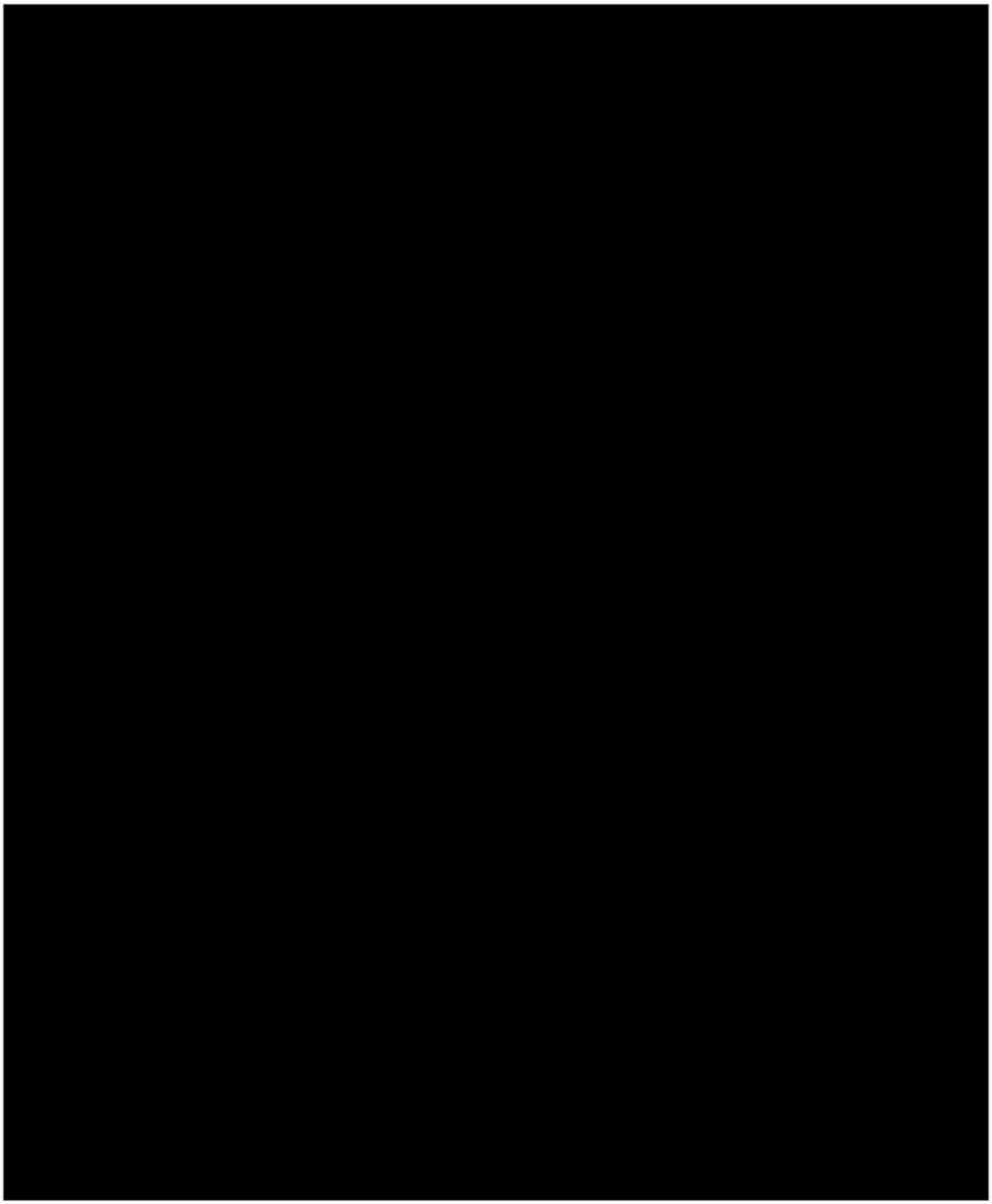
Personnel Salaries: For each position allocated to the projects, provide a description of the position responsibilities, annual salary, and percentage of time dedicated to this project for Year 1 and Year 2. Please ensure that costs are clear for both Years 1 and 2, as opposed to both years cumulatively.

Unless otherwise specifically stated, personnel costs are requested from federal sources.



2 Pages

Withheld in their entirety pursuant to FOIA Exemption 4 (5 U.S.C. § 552 (b)(4))



Through 12/31/09, CN has incurred pre-award costs related to personnel costs totaling $164.78, all requested from federal sources.

Connected Nation may utilize other employees as needed to fulfill the requirements of this project.

Personnel Fringe Benefits: For each position allocated to the projects, provide the cost for fringe benefits, if available.

Fringe Benefits

Fringe benefits are projected as a percentage of the personnel's annual salary calculated as follows: Employer's FICA Tax (7.65%), Unemployment Tax (.5%), Health/Dental/Vision Insurance (5.7%), Disability & Life Insurance (.6%), Accrued Paid Time Off (3.6%), SIMPLE match (3%), Gym benefit (.1%), and Professional Development (.3%). The total projected percentage cost will be 21.45% of the personnel salaries for years 1 through 5. Projected fringe benefit cost for CN staff for years 1 through 5 are $6,761, $7,030, $7,293, $7,585, and $7,888 respectively, all requested from federal funds.

State of Iowa benefits for the State of Iowa staff benefits total $9,430 for year 1, $2,311 for year 2, and $3,466 for years 3 through 5. All benefits paid as an in-kind contribution from the state.

Through 12/31/09 CN has incurred pre-award costs related to fringe benefit costs totaling $35.35, all requested from federal sources.

Projected Travel Costs

Iowa travel costs consist of planned trips by the project manager for project oversight and stakeholder relations. Airplane travel cost is projected to be $500 per roundtrip with 5 trips expected in year 1 for a total cost of $2,500, 3 trips in year 2 for a total cost of $1,560 and 2 trips expected in each of years 3 through 5 for a total cost of $1,082, $1,125, and $1,170, respectively. All travel costs for years 2 through 5 reflect a 4% annual inflation adjustment. Hotel room cost is projected to be $200 per room with 5 nights' occupancy in year 1 for a total cost of $1,000 and with 3 nights' occupancy in year 2 for a total cost of $624 and 2 nights' occupancy in each of years 3 through 5 for a total cost of $433, $450, and $468, respectively. Rental car expense is projected to be $90 per day with 10 days projected rental in year 1 for a total cost of $900 and with 6 days projected rental in year 2 for a total cost of $562 and 4 trips expected in each of years 3 through 5 for a total cost of $389, $405, and $421, respectively. Per diem allowance for meals is projected at $45 per day based on the current standard federal per diem rate, with 10 days of travel in year 1 for a total cost of $450 and with 6 days of travel in year 2 for a total cost of $281, and 4 trips expected each of years 3 through 5 for a total cost of $195, $202, and $211, respectively. Mileage travel cost is projected at $.55 per mile, the current applicable standard federal rate, and average trips of 120 miles with 5 expected trips in year 1, 3 expected trips in year 2, and 2 trips in each of years 3 through 5 for a total cost $330, $206, $143, $148, and $154, respectively. All travel costs are being requested through federal funds.

Connected Nation may incur additional travel expenses as needed to fulfill the requirements of this project.

Equipment: For hardware costs, provide a detailed description of all equipment to be purchased, when it will be purchased in the first two years, and the basis for the figures used.

Equipment

BroadbandSTAT is the next generation in broadband mapping, providing a comprehensive mapping portal for states to manage broadband stimulus projects and activities through the ARRA. Using ESRI's ArcGIS Server and its API mapping technologies to incorporate broadband mapping and survey data with demographic and topographic data from ESRI, the Census Bureau, and other reputable data sources, BroadbandSTAT provides not only a user-friendly GIS viewer to understand and track broadband deployment over time, it also provides an analytical tool for prioritizing unserved and underserved areas, evaluating and tracking stimulus projects, and enabling taxpayers with full transparency and accountability of broadband stimulus funding in their state. BroadbandSTAT empowers states to:

- Leverage the best-of-class, geographic informatics for broadband decision-making
- Build and evaluate scenarios to help score and prioritize broadband proposals
- Provide data-based support for effective grant-making
- Facilitate project investment tracking over time
- Provide access-based tools that are relevant and meaningful for specific audiences, including government agencies, consumers, community leaders, broadband providers, and media

[redacted]

Connected Nation may purchase other equipment as needed to fulfill the requirements of this project.

Subcontracts: For any significant subcontract, please provide the cost allocation in a format similar to the one listed directly above. Your current contractor budget only allocates personnel hours. If the contractor will be purchasing any equipment, performing any travel, etc. that should be clearly delineated.

Subcontracts

Connected Nation will utilize Research Consultants to assist with the survey research design, data processing of survey results, and verification of reporting. [redacted]

[redacted]

Research surveys will be conducted semi-annually in both years of the project to provide a third-party verification of the accuracy of the maps. We anticipate that the consultant cost

will primarily be comprised of personnel costs. The vendor or vendors have not yet been selected. [redacted]

Connected Nation may engage other subcontractors as needed to fulfill the requirements of our contract with Iowa.

Indirect Costs

Indirect costs are included at a rate of approximately 43% of direct costs. While Connected Nation does not currently hold a federal indirect cost rate, CN has calculated its rate in anticipation of requesting an indirect cost rate from the Department of Commerce. Total indirect costs in year 1 are $51,739 with $17,747 paid by the state and $33,992 requested from federal sources. Total indirect costs for year 2 are $31,661 with $4,344 paid by the state and $27,318 requested from federal sources. Total indirect costs for year 3 are $34,895 with $6,516 paid by the state and $28,379 requested from federal sources. Total indirect costs for year 4 are $36,031 with $6,516 paid by the state and $29,515 requested from federal sources. Total indirect costs for year 5 are $37,076 with $6,516 paid by the state and $30,560 requested from federal sources.

Through 12/31/09, the indirect cost percentage of 43% calculated on the direct pre-award costs total $86.06, all of which is requested from federal sources.

Applicant Capacity, Knowledge, and Experience:

2. ***As described in the NOFA, please provide a description of the knowledge and experience of the applicant and associated project personnel. If you have not yet hired for certain positions please provide a description of the qualifications and expected work activities for these positions.***

[redacted]

2 Pages

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Combined Five Year Broadband Planning and Two Year Mapping Budget, Federal funds and Match

	Applicant Share	Federal Share	Total	Notes
Personnel Salaries	114,822	520,540	635,362	
Personnel Fringe Benefits	33,880	111,654	145,534	
Travel	-	135,490	135,490	
Equipment	-	91,859	91,859	
Materials/Supplies	-	24,775	24,775	
Subcontracts	232,932	678,558	911,490	
Construction	-	-	-	
Other	127,218	15,200	142,418	
Total Direct Costs	$ 508,852	$ 1,578,076	$ 2,086,928	
Total Indirect Costs	210,168	676,184	886,352	
Total Costs	$ 719,019	$ 2,254,260	$ 2,973,279	

Detailed Mapping Budget

	Cost	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Total	Notes
Personnel Salaries									
	GIS		-						
	Manager, GIS Services		2,750	2,750		2,860	2,860	5,610	
	GIS Analyst 2		12,012	12,012		12,492	12,492	24,504	
	GIS Analyst 3		23,595	23,595		24,539	24,539	48,134	
	Intern		20,592	20,592		21,416	21,416	42,008	
	GIS Director		5,775	5,775		6,006	6,006	11,781	
	Provider Manager 2		10,560	10,560		10,982	10,982	21,542	
	Stakeholder Relations		-			-			
	Director, Policy Development		3,201	3,201		3,329	3,329	6,530	
	Manager, Research & Policy Communications		1,183	1,183		1,230	1,230	2,413	
	Engineering		-			-			
	Director, Engineering & Technical Services		7,623	7,623		7,928	7,928	15,551	
	Research		-			-			
	Chief Policy Officer		2,310	2,310		2,402	2,402	4,712	
	Manager, Research Development		1,925	1,925		2,002	2,002	3,927	
	Research Analyst		6,160	6,160		6,406	6,406	12,566	
	Research Specialist 1		4,928	4,928		5,125	5,125	10,053	
	Research Specialist 4		1,897	1,897		1,973	1,973	3,870	
	Research Project Coordinator		2,391	2,391		2,486	2,486	4,877	
	Communications		-			-			
	Director of Communications		1,925	1,925		2,002	2,002	3,927	
	Communications Specialist 1		7,480	7,480		7,779	7,779	15,259	
	Communications QA		1,238	1,238		1,287	1,287	2,525	
	Project Management		-			-			
	Executive Director, Strategic Program Office		5,500	5,500		5,720	5,720	11,220	
	Project Manager 2		25,960	25,960		26,998	26,998	52,958	
	Project Coordinator		24,750	24,750		25,740	25,740	50,490	
	State of Iowa Staff								
	Board Member	5,202		5,202	1,244		1,244	6,446	
	Manager-Telecom	8,965		8,965	2,241		2,241	11,206	
	Utility Specialist 1	5,817		5,817	1,407		1,407	7,224	
	Utility Specialist 2	5,817		5,817	1,407		1,407	7,224	
	Senior Utility Analyst	4,588		4,588	1,110		1,110	5,698	
	Assistant General Council	1,591		1,591	415		415	2,006	
Total		31,980	173,755	205,735	7,824	180,702	188,526	394,261	
Personnel Fringe Benefits									
	Employer's FICA Tax		13,292	13,292		13,824	13,824	27,116	
	Unemployment Tax		869	869		904	904	1,773	
	Health/Dental/Vision Insurance		9,904	9,904		10,300	10,300	20,204	
	Disability & Life Insurance		1,043	1,043		1,084	1,084	2,127	
	Accrued Paid Time Off		6,255	6,255		6,505	6,505	12,760	
	SIMPLE Match		5,213	5,213		5,421	5,421	10,634	
	Gym Benefit		174	174		181	181	355	
	Professional Development		521	521		542	542	1,063	
	Iowa State Personnel Benefits						-	-	
	Board Member	1,359		1,359	325		325	1,684	
	Manager-Telecom	2,633		2,633	658		658	3,291	
	Utility Specialist 1	1,454		1,454	352		352	1,806	
	Utility Specialist 2	1,962		1,962	475		475	2,437	
	Senior Utility Analyst	1,416		1,416	343		343	1,759	
	Assistant General Council	606		606	158		158	764	
Total		9,430	37,271	46,701	2,311	38,761	41,072	87,773	
Travel									
	Airfare		26,500	26,500		12,480	12,480	38,980	
	Hotel		27,000	27,000		12,064	12,064	39,064	
	Rental Car		16,920	16,920		7,675	7,675	24,595	
	Per Diem		8,460	8,460		3,838	3,838	12,298	
	Mileage		3,498	3,498		1,647	1,647	5,145	
	Project Management Split								
Total		-	82,378	82,378	-	37,704	37,704	120,082	
Equipment									
	Broadband Stat		39,000	39,000		9,750	9,750	48,750	
	ESRI ArcInfo/ArcGIS Software		13,835	13,835		3,024	3,024	16,859	
Total		-	52,835	52,835	-	12,774	12,774	65,609	
Materials/Supplies									
	Computers - GIS Processing		6,000	6,000		-	-	6,000	
	Computers		5,000	5,000		5,000	5,000	10,000	
	Speed Test		2,400	2,400		500	500	2,900	
	Google Earth Pro		800	800		800	800	1,600	
	Spectrum Analyzer		4,000	4,000		-	-	4,000	
	GPS Units		275	275		-	-	275	
Total		-	18,475	18,475	-	6,300	6,300	24,775	
Subcontracts									
	GIS Consultants		130,055	130,055		-	-		Primarily personnel costs.
	Engineering Consultants	149,946	149,946	299,892	63,586	135,903	199,489	130,055	Subcontractor not yet selected.
	Legal-General	13,800	14,200	28,000	5,600	5,600	11,200	499,381	See Detailed Budget
								39,200	See Attorney Budget Page
	Research Consultant		1,800	1,800		1,800	1,800		Primarily personnel costs.
								3,600	Subcontractor not yet selected.
	Research Surveys		29,722	29,722		29,722	29,722		Primarily personnel costs.
	ESRI BBStat Hosting		11,515	11,515		6,208	6,208	59,444	Subcontractor not yet selected.
	ESRI Productions Support		55,686	55,686		-	-	17,723	Hosting of Broadband Stat
								55,686	Primarily personnel costs.

Total		163,746	392,924	556,670	69,186	179,233	248,419	805,089
Construction								
Total		-	-	-	-	-	-	-
Other								
	Outreach	10,000	10,000	20,000	5,200	5,200	10,400	30,400
	State of Iowa Datasets	106,480	-	106,480			-	106,480
	IA Office Space	2,769	-	2,769	2,769		2,769	5,538
Total		119,249	10,000	129,249	7,969	5,200	13,169	142,418
Total Direct Costs		324,405	767,638	1,092,043	87,290	460,674	547,964	1,640,007
Total Indirect Costs		135,075	328,988	464,063	33,454	197,432	230,886	694,949
Total Costs		459,480	1,096,626	1,556,106	120,744	658,106	778,850	2,334,956
Total Federal Costs								1,754,732

	Cost	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Total	Notes
Personnel Salaries									
	Fortitude Ventures	10,660	10,660	21,320	11,086	11,086	22,173	43,493	
	JaJa Consulting	17,680	17,680	35,360	18,387	18,387	36,774	72,134	
	Engineering Consultants	121,606	121,606	243,212	34,112	106,429	140,541	383,753	Engineering Consultants are yet to be engaged. We estimate an average cost of $100/hr. with 1 hour donated for every 3 worked. Total estimated hours is 2966 hours in year 1 and 1664 in year 2 (4% Inflation).
								-	
Total		149,946	149,946	299,892	63,586	135,903	199,489	499,381	
Personnel Fringe Benefits									
								-	
Total		-	-	-	-	-	-	-	
Travel									
Total		-	-	-	-	-	-	-	0
Equipment									
								-	
Total		-	-	-	-	-	-	-	
Materials/Supplies									
Total		-	-	-	-	-	-	-	
Subcontracts									
		-	-	-	-	-	-	-	
				-			-	-	
Total		-	-	-	-	-	-	-	
Construction									
								-	
Total								-	
Other									
								-	
								-	
Total		-	-	-	-	-	-	-	
Total Direct Costs		149,946	149,946	299,892	63,586	135,903	199,489	499,381	
Total Indirect Costs				-			-	-	
								-	
Total Costs		149,946	149,946	299,892	63,586	135,903	199,489	499,381	

	Cost	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Total	Notes
Personnel Salaries	Eric Mills Attorney at Law, PLLC	13,800	14,200	28,000	5,600	5,600	11,200	39,100	
								-	
Total		13,800	14,200	28,000	5,600	5,600	11,200	39,200	
Personnel Fringe Benefits								-	
Total		-	-	-	-	-	-	-	
Travel								-	
Total		-	-	-	-	-	-	-	
Equipment								-	
Total		-	-	-	-	-	-	-	
Materials/Supplies								-	
Total		-	-	-	-	-	-	-	
Subcontracts		-	-	-	-	-	-	-	
				-			-	-	
Total		-	-	-	-	-	-	-	
Construction								-	
Total								-	
Other								-	
								-	
Total		-	-	-	-	-	-	-	
Total Direct Costs		13,800	14,200	28,000	5,600	5,600	11,200	39,200	
Total Indirect Costs				-			-	-	
Total Costs		13,800	14,200	28,000	5,600	5,600	11,200	39,200	

	Cost	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Applicant Share	Federal Share	Total	Total	Notes
Personnel Salaries																		
	Broadband Planning Staff																	
	Project Manager		23,375	23,375		24,310	24,310		2,528	2,528		2,629	2,629		2,735	2,735	55,577	
	Research																	
	Chief Policy Officer		990	990		1,030	1,030		3,523	3,523		3,664	3,664		3,810	3,810	13,017	
	Manager, Research Development		825	825		858	858		2,936	2,936		3,053	3,053		3,175	3,175	10,847	
	Research Analyst		2,640	2,640		2,746	2,746		9,394	9,394		9,770	9,770		10,161	10,161	34,711	
	Research Specialist 1		2,112	2,112		2,196	2,196		7,515	7,515		7,816	7,816		8,129	8,129	27,768	
	Research Specialist 4		813	813		846	846		2,893	2,893		3,009	3,009		3,130	3,130	10,691	
	Research Project Coordinator		1,025	1,025		1,066	1,066		3,646	3,646		3,792	3,792		3,944	3,944	13,472	
	State of Iowa Staff																	
	Board Member	5,202		5,202	1,244		1,244	1,866		1,866	1,866		1,866	1,866		1,866	12,044	
	Manager-Telecom	8,965		8,965	2,241		2,241	3,362		3,362	3,362		3,362	3,362		3,362	21,292	
	Utility Specialist 1	5,817		5,817	1,407		1,407	2,111		2,111	2,111		2,111	2,111		2,111	13,557	
	Utility Specialist 2	5,817		5,817	1,407		1,407	2,111		2,111	2,111		2,111	2,111		2,111	13,557	
	Senior Utility Analyst	4,588		4,588	1,110		1,110	1,665		1,665	1,665		1,665	1,665		1,665	10,693	
	Assistant General Council	1,591		1,591	415		415	623		623	623		623	623		623	3,875	
Total		31,980	31,780	63,760	7,824	33,051	40,875	11,738	32,435	44,173	11,738	33,734	45,472	11,738	35,083	46,821	241,101	
Personnel Fringe Benefits																		
	Employer's FICA Tax		2,431	2,431		2,528	2,528		2,481	2,481		2,581	2,581		2,684	2,684	12,705	
	Unemployment Tax		159	159		165	165		162	162		169	169		175	175	830	
	Health/Dental/Vision Insurance		1,811	1,811		1,884	1,884		1,849	1,849		1,923	1,923		2,000	2,000	9,467	
	Disability & Life Insurance		191	191		198	198		195	195		202	202		210	210	996	
	Accrued Paid Time Off		1,144	1,144		1,190	1,190		1,168	1,168		1,214	1,214		1,263	1,263	5,979	
	SIMPLE Match		953	953		992	992		973	973		1,012	1,012		1,052	1,052	4,982	
	Gym Benefit		32	32		33	33		32	32		34	34		35	35	166	
	Professional Development		95	95		99	99		97	97		101	101		105	105	497	
	State of Iowa Staff																	
	Board Member	1,359		1,359	325		325	488		488	488		488	488		488	3,148	
	Manager-Telecom	2,633		2,633	658		658	987		987	987		987	987		987	6,252	
	Utility Specialist 1	1,454		1,454	352		352	528		528	528		528	528		528	3,390	
	Utility Specialist 2	1,962		1,962	475		475	712		712	712		712	712		712	4,573	
	Senior Utility Analyst	1,416		1,416	343		343	514		514	514		514	514		514	3,301	
	Assistant General Council	606		606	158		158	237		237	237		237	237		237	1,475	
Total		9,430	6,816	16,246	2,311	7,089	9,400	3,466	6,957	10,423	3,466	7,236	10,702	3,466	7,524	10,990	57,761	
Travel																		
	Airfare		2,500	2,500		1,560	1,560		1,082	1,082		1,125	1,125		1,170	1,170	7,436	
	Hotel		1,000	1,000		624	624		433	433		450	450		468	468	2,975	
	Rental Car		900	900		562	562		389	389		405	405		421	421	2,677	
	Per Diem		450	450		281	281		195	195		202	202		211	211	1,339	
	Mileage		330	330		206	206		143	143		148	148		154	154	982	
Total		-	5,180	5,180	-	3,232	3,232	-	2,241	2,241	-	2,331	2,331	-	2,424	2,424	13,088	
Equipment																		
	Broadband Stat		21,000	21,000		5,250	5,250		-	-		-	-		-	-	26,250	
			-			-			-			-			-			
Total		-	21,000	21,000	-	5,250	5,250	-	-	-	-	-	-	-	-	-	26,250	
Materials/Supplies																		
			-	-		-	-		-	-		-	-		-	-	-	
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subcontracts																		
	Research Consultant		1,800	1,800		1,872	1,872		1,622	1,622		1,687	1,687		1,755	1,755	8,736	Primarily personnel costs. Subcontractor not yet selected.
	Survey Consultants		12,738	12,738		13,248	13,248		22,962	22,962		23,881	23,881		24,836	24,836	97,665	Primarily personnel costs. Subcontractor not yet selected.
																	-	
Total		-	14,538	14,538	-	15,120	15,120	-	24,585	24,585	-	25,568	25,568	-	26,591	26,591	106,401	
Construction																		
Total																	-	
Other																		
		-		-	-		-	-		-	-		-	-	-	-	-	
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Direct Costs		41,410	79,314	120,724	10,135	63,742	73,877	15,204	66,218	81,422	15,204	68,869	84,073	15,204	71,622	86,826	446,921	
Total Indirect Costs		17,747	33,992	51,739	4,344	27,318	31,661	6,516	28,379	34,895	6,516	29,515	36,031	6,516	30,560	37,076	191,403	
Total Costs		59,157	113,305	172,463	14,479	91,060	105,538	21,720	94,597	116,317	21,720	98,384	120,104	21,720	102,182	123,902	638,324	
Total Federal Costs																	499,528	