U.S. DEPARTMENT OF COMMERCE					2. Award Or Grant Number 29-50-M09022			
Performance Progress Report						4. Report Date (MM/DD/YYYY) 10-28-2011		
1. Recipient Name					6. Designate	ed Entity	On Behalf Of:	
Missouri Office of Administration					Missouri	<u>-</u>	5.1. 25.1.a.i. 5.1.	
3. Street Address					8. Final Rep	oort?	9. Report Frequency	
301 West High Street, HST Room	280, P.O. Box 809,				Yes		<ul><li>Quarterly</li></ul>	
5 City State Zin Code					(• No		Semi Annual	
5. City, State, Zip Code					( NO		○ Annual	
Jefferson City, MO 65102-0809							Final	
.,	7a. End Date: (MM/DD/YYYY)	7b.	oorting Period End Date:		9a. If Other	, please	describe:	
· '	0-30-2014	1 '	30-2011		N/A			
		09-0	30-2011					
10. Broadband Mapping	10a. Provider Table							
Number of Number of Providers Identified Providers Contact	Number of Agreement cted Reached for Data Sha		Number of Partial Data Sets Received	Number	r of te Data Sets	Number Data S	er of Sets Verified	
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0 0				0		U		
10b. Are you submitting the required P	ROVIDER DATA by using th	he Exc	el spreadsheet provid	led by the	SBDD grants	s office?	○Yes ●No	
10c. Have you encountered challenge:	s with any providers that indi	icate th	hey may refuse to par	ticipate in	this project?	<ul><li>Yes</li></ul>	○No	
10d. If so, describe the discussions to	date with each of these provi	iders a	and the current status					
At this point we have five (5) provid								
Birch Telecom of Missouri Inc.								
Pixius Communications Will no				n ID Insi	ght			
Ionex Communications, Inc. A								
Poplar Bluff Internet, Inc (SEM SEMO Communications Inc. V								
We have asked their respective ass				ell as pur	suina public	lv availa	able maps of their	
service area and representing their				ii ao pair	Jamig Pabilo	iy avanc	able mape of them	
10e. If you are collecting data through	other means (e.g. data extra			ease desc	ribe your pro	gress to	date and the relevant	
activities to be undertaken in the						_		
We continue our public-based search								
heads-up digitized. We completed a information to gain a better underst								
census data (housing units, populat								
Regional Technology Planning Tea								
blocks about service provision. We	•	-						
confidence measures for the variou								
site through distribution of postcard								
purchase of price data from Telogic								
sporting events to collect informatio								
Agriculture: Missouri Corn Growers; Missouri Soybean Association; Missouri Farmers Association). We are evaluating the purchase o ESRI Business Analyst to support the Regional Technology Planning Teams Strategic Planning efforts.						lating the purchase of		
10f. Please describe the verification ac			ing reams offategi	C i idililii	ig enorts.			
We are using a convergence of evid			nine coverage cons	istency a	s well as pr	ovide a	measure of	
confidence for these areas and bou								
Provider validation – provider rev								
2. Lab-based verification – Using pu								
Form 477 information; marketing m								
3. Field verification – field-based observation, interviews, and measures; Air-cards; Moving away from Community Anchor Institution calls into a more collaborative relationship with statewide associations (i.e. Fire Marshal: State Police Chiefs Association: State Sherit								
	alls into a more collaborative relationship with statewide associations (i.e. Fire Marshal; State Police Chiefs Association; State Sherifl Association, Missouri Municipal League); Completed both residential (9,747) and business surveys (1,100+); and state / regional /							
county fair booths with surveys, postcards, and pin-mapping.								

4. Consumer feedback – updates on broadband coverage through web-mapping portal is occurring; State 'Speed Test' results as well as the FCC Speed Test site. 10g. Have you initiated verification activities? •Yes No 10h. If yes, please describe the status of your activities 1. Provider validation – provider review of submitted areas and boundaries for the April 1 submission is completed and integrated into the final October 1, 2011 submission. 2. Lab-based verification – Initially independently completed by GeoDecisions / CBG and the University of Missouri. These are then compared and fed back into each others systems to cross-validate information on individual providers. 3. Field verification – field-based observation and measure have been completed by GeoDecisions /CBG and The University of Missouri. The customized Missouri Ookla site data continues to collect data. 4. Consumer feedback – Citizen residential sampling and survey strategy completed. 76,760 surveys distributed with minimum of 10% return within all regions except one (18 of 19). 9,747 residents completed the survey. Online survey of Businesses completed with 1,100 surveys completed yielding important information with regards to business need and use. We also obtained 1053 new surveys and 390 pin points from Fairs. 10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities N/A Staffing 10j. How many jobs have been created or retained as a result of this project? 14.33 FTE are currently funded with federal dollars. 10k. Is the project currently fully staffed? • Yes No 10l. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed N/A 10m. When fully staffed, how many full-time equivalent (FTE) jobs do you expect to create or retain as a result of this project? Fully staffed we will have 15.26 FTE. This number is expected to vary due to work loads within the University, subcontractors, field effort timing, and Regional Technology Planning Team coordinators and Regional Planning Council staff working on the project. 10n. Staffing Table

Job Title	FTE %	Date of Hire
Project Director - MU	60	12/01/2009
Administrative Assistant Mapping - MU	25	12/01/2009
Temporary Technical - MU	75	12/01/2009
Temporary Technical - MU	65	01/10/2011
Undergraduate Student Assistant Technical - MU (n=6)	90	05/17/2010
Undergraduate Student Assistant Service - MU (n=6)	90	12/01/2009
Graduate Research Assistant - MU	20	08/22/2011
Program Manager - Research Specialist Senior Mapping - MU	75	12/01/2009
Research Specialist Mapping - MU	100	12/01/2009
Research Specialist Mapping - MU	58	12/01/2009
Research Specialist Mapping - MU	33	01/03/2011
Geographic Information System Specialist - MU	45	12/01/2009
Administrative Assistant - MU	17	12/01/2009

Undergraduate Student Assistant Service - MU (n=4)	60	05/16/2011
Geospatial Extension Specialist	50	12/01/2009
Graduate Research Assistant - MU	50	01/03/2011
Project Director - GeoDecisions	8	01/01/2010
Project Manager - GeoDecisions	22	01/01/2010
Developer - GeoDecisions	15	05/03/2010
Network Analyst - GeoDecisions	10	05/03/2010
Geographic Information System Analyst - GeoDecisions	35	01/01/2010
Technical Architect - GeoDecisions	10	05/03/2010
MoBroadbandNow Director	100	12/01/2010
MoBroadbandNow Assistant Director	100	12/01/2010
Regional Planning Commissions / Councils - RTPT Coordinators	100	10/01/2010
Regional Planning Commissions / Councils - RTPT Coordinators	100	10/01/2010
Regional Planning Commissions / Councils - RTPT Coordinators	20	10/01/2010
	•	•

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# **Sub Contracts**

10o. Subcontracts Table

100. Subcontracts Table							
Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal Funds	In-Kind Funds
University of Missouri	Mapping: Support to the State of Missouri to include public source data collection, integration, mapping, database construction for community anchor points, independent quality control, communications, field verification, lab verification, and maintenance	N	Y	12/01/2009	11/30/2011	1,693,253	292,207
GeoDecisions and CBG Team	Mapping: Support to the State of Missouri to include NDA work, data collection, integration, mapping, database construction, quality control, communications, field verification, lab verification, website development and transfer, and maintenance; Planning	N	Y	12/01/2009	11/30/2011	2,262,936	0
Environmental Systems Research Institute (ESRI)	Architecture and support for Web Mapping applications and services; Installation of Web Mapping Services for Broadband Map	N	Y	05/02/2011	05/02/2012	0	65,000

Regional Planning Councils	Aid in the hosting and facilitation of regional technology planning teams and sector development as well as residential survey and business survey support.	N	Υ	10/01/2010	03/30/2012	647,000	0
Not Selected	State-based Address Points Mapping	N	N	01/02/2012	12/31/2012	340,000	529,067

Add Row Remove Row

# **Funding**

10p. How much Federal funding has been expended as of the end of the last quarter?

\$516,265

10q. How much Remains?

\$6,057,117

10r. How much matching funds have been expended as of the end of last quarter?

\$1,643,346

10s. How much Remains?

\$0

10t. Budget Worksheet

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	\$1,466,615	\$623,726	\$2,090,341	\$43,500	\$43,193	\$86,693
Personnel Fringe Benefits	\$6,648	\$100,746	\$107,394	\$15,458	\$8,226	\$23,684
Travel	\$0	\$0	\$0	\$1,088	\$5,059	\$6,147
Equipment	\$0	\$32,600	\$32,600	\$0	\$1,750	\$1,750
Materials / Supplies	\$0	\$0	\$0	\$70,198	\$8,218	\$78,416
Subcontracts Total	\$4,943,189	\$886,274	\$5,829,463	\$386,021	\$1,576,901	\$1,962,922
Subcontract #1	\$1,693,253	\$292,207	\$1,985,460	\$117,360	\$564,067	\$681,427
Subcontract #2	\$2,262,936	\$0	\$2,262,936	\$189,261	\$909,634	\$1,098,895
Subcontract #3	\$0	\$65,000	\$65,000	\$0	\$65,000	\$65,000
Subcontract #4	\$647,000	\$0	\$647,000	\$79,400	\$38,200	\$117,600
Subcontract #5	\$340,000	\$529,067	\$869,067	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$156,930	\$0	\$156,930	\$0	\$0	\$0
Total Direct Costs	\$6,573,382	\$1,643,346	\$8,216,728	\$516,265	\$1,643,346	\$2,159,612
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$6,573,382	\$1,643,346	\$8,216,728	\$516,265	\$1,643,346	\$2,159,612
% Of Total	80	20	100	8	20	26

### Hardware / Software

10u. Has the project team purchased the software / hardware described in the application?

Yes No

10v. If yes, please list

Servers and other hardware for support of the state's Broadband Mapping portal has been purchased. Accounting is in the process of moving this cost from the State to the University as the determination of where to host the services changed in mid-stream when the State decided to move all image services and many map services to the University's geospatial data clearinghouse. Software was also acquired (ArcGIS10, ArcServer10, etc.)

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased					
Waiting to see if scaling will be necessary for the Broadband Mapping application or MoBroadbandNow website.					
10x. Has the project team purchased or used any data sets? Yes No 10y. If yes, please list					
N/A					
10z. Are there any additional project milestones or information that has not been included?    Yes No  10aa. If yes, please list					

The residential survey is complete with 9,747 respondents statewide (averaging 12.7% return). The on-line business survey has over 1,100 responses. The Regional Technology Planning Teams has engaged over 400 people across 18 of 19 regions of the state in a statewide discussion and assessment of broadband needs and strategies to date.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing Turn-over within the Regional Technology Planning Teams has hindered some sectors in some regions. These were then back-filled as it took some time to locate new leads.

We were really struggling with the mapping and representation of blocks greater than 2 sq miles. This was especially true if all road segments within the block are served. We developed an approach that has recieved favorable review from both the public and providers and have now rolled that out to the MoBroadbandNow websites and Regional Technology Planning Teams.

The new FCC breaks at 4M-1M do not coincide with the current data model. Thus any mapping that we do in response to inquires is very inaccurate as it relates to this break. We have asked NTIA if the data model will change. We are waiting for a decision.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

The entirety of the State's match has been used up-front to cover year 1 and a portion of Year 2 costs associated with the mapping and planning elements of the award. Match used were actual State dollars allocated for the purpose of supporting the mapping and planning aspects of the NTIA proposal. No data match was calculated. Some state personnel salary is still being used as part of this match but is now classified as overmatch and is not being reported within this framework.

#### 11. Broadband Planning

11a. Please describe progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Be sure to include a description of each major activity / milestone that you plan to complete and your current status

All but one Regional Technology Planning Team is in place. The one entity that did not want to participate we are working with the state association to enter into contract with to gather that information.

The two pilot RTPT's are assembling their comments to the SWOC (Strengths, Weaknesses, Opportunities, and Challenges) assessment. These have been compiled for one pilot and a draft of the Strategic is almost complete. Some time was spent in development of a Strategic Plan outline and template so as to maintain consistency among plans.

Residential surveys have been collected for all 19 regions (n=9747). Only one region did not reach the target of 400 surveys (298). We believe that this data set represents the largest rural sample of broadband interest to be collected. Business surveys have reached 1,100. The sample numbers will support splitting of these samples into sector groups such as agriculture, manufacturing, technology, etc. The second round of meetings to review the regional needs assessment (residential surveys; business surveys; and sector discussions) has taken place and the resulting SWOC analyses have been drafted. These will be distributed early in Q4 for review. Once comments are received, the draft Strategic Plan for each region will be drafted and distributed.

Needs assessments for 17 of 19 regions are completed. The final 2 regions are lagging due in one case a sampling error in the mail out of residential surveys. This was discovered once the initial surveys were compiled. Another mailing of 760 surveys was sent to targeted zip codes within one county. 103 surveys were returned and the new compilation will be completed shortly. The other region was one in which we did not have a cooperating RPC and it has taken longer to compile this information.

The 2011 Broadband Summit planning is underway. The Summit is set for November 17, 2011 in Jefferson City, MO. Speakers, panels, and topics have been outlined and a program developed.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing Not enough discussion time within meetings: We have streamlined the presentation materials to enable more time for discussion with the regional representatives in the second set of meetings.

Presenting a common context: Standardized the type of information presented from the residential surveys and business surveys. Discussions and relevance to the region is then discussed against this context.

A ton of material collected: Created a common format for the SWOC analysis presentations as well as a Regionally-Based Strategic Plan outline and template. Basic graphics and maps have been designed and will be turned over to students to complete the assembly of the documents graphics. Leads for each RPC are conducting the drafting of the plans.

Provider dissatisfaction with portrayal of coverage within 2-sq mile blocks: Created a GIS-based compilation of footprints that more effectively shows coverage in our rural areas.

11c.	Does the Project	Team anticipate any	changes to	the project plan for	r Broadband Planning?	CYes	No     No

N/A

### **Funding**

ding has been expend	) 11f.	How much Remains?	? \$0		
unds have been expen	0 11h.	. How much Remains'	? \$0		
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## **Additional Planning Information**

The Missouri MOBroadbandNow Program Office is continuing participation within Regional Technology Planning Team meetings as well as interfacing with local governmental officials (Commissioners, etc.) to gain their future support.

The Technical Support focus is changing based on conversations and needs voiced in the RTPT meetings. There is a great need to briefs on the technology so as to be able to state in layman's terms the choices and pros and cons of the various technology choices available for broadband. We are also starting to compile a frequently asked questions file.

Missouri's broadband website is continuing to serve the data. We will be updating these files with the Oct 1 submission early in Q4.

11k. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the Project Team is employing

There is a current development of a cadastral mapping standard that incorporates an element of addressing. We believe that we can now proceed with the final development of a contracting mechanism for the rural addressing component of this work. Our plan was to have two groups under contract in Q4-2011. We will probably be late with this milestone and will have achieved this sometime in Q1 of 2012. Once the contracting mechanism is in place we can accelerate the contracting aspects with local government partners to get back on schedule.

<sup>11</sup>d. If yes, please describe these anticipated changes. Please note that NTIA will need to approve changes to the Project Plan before they can be implemented

<sup>11</sup>j. Are there any additional project milestones or information that has not been included?

11I. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project				

<ol> <li>Certification: I certify to the best of my knowledge and belief that this report is correset forth in the award documents.</li> </ol>	ect and complete for performance of activities for the purpose
12a. Typed or Printed Name and Title of Authorized Certifying Official	12c. Telephone (area code, number, and extension)
Tim Haithcoat	, , , , ,
	12d. Email Address
	Tim.Haithcoat@oa.mo.gov
12b. Signature of Authorized Certifying Official	12e. Date Report Submitted (Month, Day, Year)
Submitted Electronically	11-22-2011