Butte-Silver Bow Planning Department

Application for
Montana Land Information Act
Fiscal Year 2016

Butte-Silver Bow Rural Emergency Services Online

Submitted by Butte-Silver Bow Planning Board
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Butte, MT 59701
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February 12, 2015

APPLICATION FOR GRANT FUNDING

STEP 1 – Applicant and Partner Information

Primary Applicant (Required):	
Name of principle individual:	Pat Riordan
Name of agency\entity:	Butte-Silver Bow Planning Board
Street:	155 W. Granite
City:	Butte
County:	Silver Bow
State:	Montana
Zip Code:	59701
Contact email address:	priordan@bsb.mt.gov
Contact fax address:	406.497.6298
Contact phone:	406.497.6262
Organizational Unit (if applicable)	
Department:	Planning Department
Division:	Geographic Information Services

Other Project Partners – complete for each partner (copy box as needed):	
Name of contact:	Ken Wall
Name of Agency:	Geodata Services, Inc.
Street:	P.O. Box 8081
City:	Missoula
County:	Missoula
State:	Montana
Zip Code	59807
Contact email address	kwall@geodataservicesinc.com
Contact phone:	(406) 203-4684

Date Submitted (Required): 2.12.15 **Date Received by State:**

Descriptive Title of Applicant's Project (Required):

Butte-Silver Bow intends to use MLIA funds to utilize ESRI ArcGIS Online for Organizations to make rural-area data available to Emergency Service personnel to enhance their response times to rural areas as well as procure training that will educate local employees, local, state and federal agencies, businesses and the general public of the utility of spatial analysis in decision making.

STEP 2 – Relevance and Public Benefit

Butte-Silver Bow (BSB) Geographic Information Services (GIS) is dedicated to providing the most accurate, accessible and comprehensive Geographic Information to City-County, State, Federal and private sector stakeholders in Butte and throughout the state. In recent years, BSB GIS has utilized grant funding to improve the accuracy of its spatially-based municipal data, modernize its data collection processes, and strengthen its capacity to maintain varieties of spatial data. However, as BSB GIS continues to improve its spatial data, the department is challenged to make its collection of rural-area spatial information available through an online, digital platform as well as expand use of spatial data by agencies, governments, businesses and the public through training and partnership. Butte-Silver Bow intends to use MLIA funds to improve the delivery of rural-area emergency services through ArcGIS Online, procure training that will educate local employees of the advantages of a multi-platform GIS program, and utilize ArcGIS Online to make BSB's library of data available to the general public.

BSB GIS applies for Category B2 Local and Regional GIS Capacity Building, B2.2 Localized GIS solutions that demonstrate the value of GIS in improving quality of life for Montana citizens and build grassroots support for location-based services.

Since 1999, Butte-Silver Bow GIS has participated in a statewide initiative to enhance Montana 911 with delivery of emergency services by GPS locating existing and assigning new physical addresses, building footprints, roads, trails and hydrants for integration into its spatial database. Since that time, BSB GIS has built an expansive repository of data specific to Silver Bow County, and is currently challenged to provide this information to emergency service personnel in a digital format.

Publicly available digital resources will aid emergency service personnel in their response to rural-area residents. Since 1999, BSB GIS has published thirty-two hard copy township map atlas books to assist police and fire personnel with their efforts to respond to emergencies in Silver Bow County's outlying areas. Butte-Silver Bow's current Fire Chief recognized the frequent changes to spatial data making hard-copy atlases in some areas defunct soon after their production. In 2014, BSB Fire Department requested an online platform its personnel could access while en route to emergencies. At the time, Google Earth was selected as the primary framework for information delivery. While a powerful application, Google Earth presented challenges, namely its limitations accommodating BSB GIS' volume of data. Although useful, addresses, hydrant locations, and road information available through Google is often contrary to BSB GIS' locally sourced data. Rather than procure Google Earth Pro, BSB GIS has opted to move forward with an ESRI option, ArcGIS Online for Organizations, which will accommodate BSB's arsenal of rural-area data in native format and ensure BSB emergency service personnel provide quality service to Silver Bow County's rural residents.

Quality Emergency Service is priority one of this program, followed by training and publication of open source maps to improve spatial data's use in decision making across local, state and federal agencies, local businesses and the general public. Training is essential as it expands awareness of spatial data's capacity to aid in analysis and decision making. Better decisions lead to higher quality of life and BSB GIS believes more spatially-based information in the hand of more people will result in choices that will positively impact quality of life for Butte-Silver Bow residents.

STEP 3 – Scope of Work Narrative

Goals & Objectives

Goal 1 – Implement a localized solution to improve access to Butte-Silver Bow spatial data through an Online mapping resource.

- Objective A. Procure an ArcGIS for Organization's subscription
    - Task 1. Butte-Silver Bow GIS will purchase a 1 year ArcGIS for Organizations subscription and assign 5 program licenses to five Butte-Silver Bow employees.
    - Task 2. Leverage staff training to develop a base map for BSB ArcGIS Online
    - Task 3. Upload a series of most requested maps to the online resource.
- Objective B. Procure ArcGIS Online Start Up Pack through Geodata Services, Inc.
    - Task 1. Subscribe to the 'Standard Kick Start' program which includes 40 hours of consulting and 20 hours of training.
    - Task 2. Procure services through a BSB Professional Services Contract
    - Task 3. Work with Geodata Services to develop a list of mapping needs and begin to formulate a process to make those resources publicly available.
    - Task 4. Participate in training and lessons to learn how ArcGIS Online differs from ArcGIS Desktop, how to merge functionality, and work with both interfaces.

Goal 2 – Improve delivery of emergency services to rural areas of Silver Bow County.

- Objective A. Publish Butte-Silver Bow rural-area data to ArcGIS Online to enhance the reliability and delivery of emergency services to the rural areas of Silver Bow County
    - Task 1. Publish rural address point locations, non-urban building footprints, rural roads, rural trails, and rural hydrant locations.
    - Task 2. Regularly update address points based upon emergency service provider's feedback to ensure ongoing accuracy.
    - Task 3. Work with Emergency Services personnel to ensure data sets available via ArcGIS Online work for their processes and in fact do enhance their ability to serve rural-area residents more efficiently.

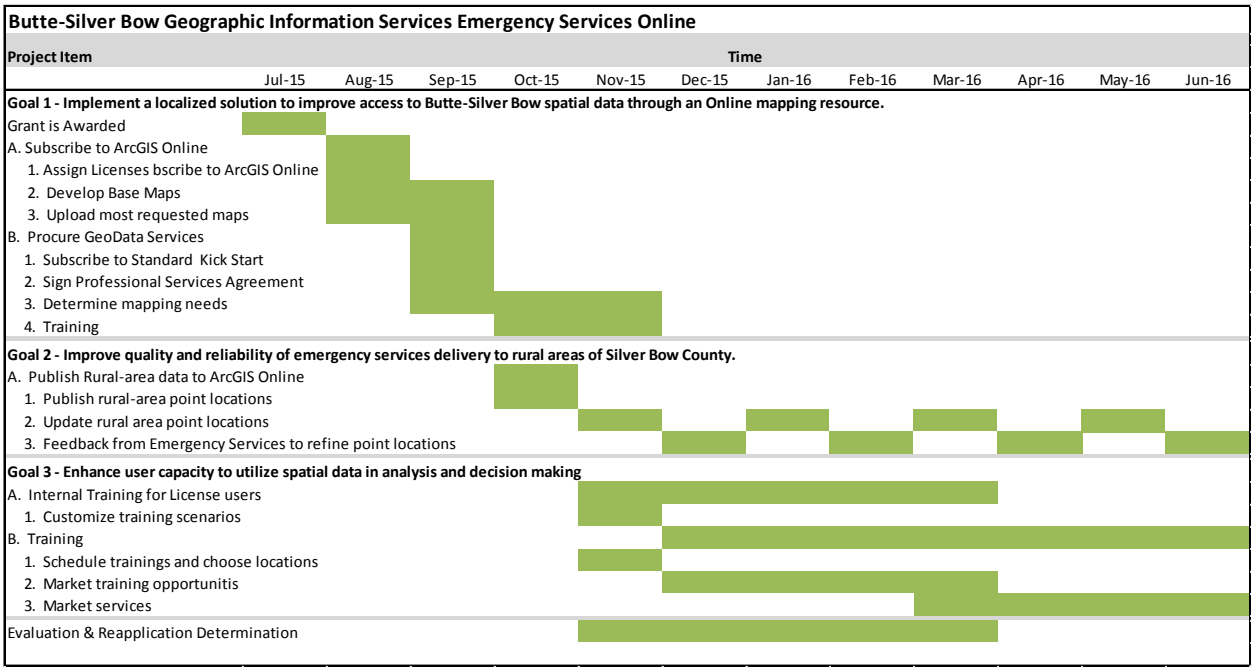
Goal 3 – Enhance user capacity to utilize spatial data in analysis and decision making.

- Objective A. Participate in bi-weekly Geodata Services, Inc. training to educate users on the utility of ArcGIS Online
    - Task 1. Work with Geodata Services to develop a customized training scenario that will enable BSB employees without previous GIS mapping experience to easily navigate and begin utilizing spatial data in their business unit's analysis and decision making methodology.
- Objective B. Schedule monthly training opportunities geared toward BSB employees and the general public to educate and promote use of Butte-Silver Bow's ArcGIS Online resources in business processes
    - Task A. Identify electronic resources and space to host trainings such as BSB Management Information Systems training facilities, BSB Library, BSB Archives and other public locations

- Task 2. Utilize traditional print media and radio as well as digital and social media marketing to conduct outreach to the public and make them aware of training opportunities.
- Task 3. BSB GIS hopes to move beyond its current level of engagement by making more local information available and relevant. Therefore, we will enhance external marketing of dataset availability as well as the online tool and how it can be used in common business processes.

Project Schedule

The program is intended to operate over the course of one calendar year.



STEP 4 – Project Management and Organizational Capability Narrative

The Butte-Silver Bow Geographic Information Services Office is a division of the Butte-Silver Bow Planning Department. The GIS Office mission is to provide the most complete, accessible, and accurate spatial database to benefit City-County, State, Federal and private sector applications and mapping projects. Butte-Silver Bow GIS will lead the project training from GeoData Services, Inc. Butte-Silver Bow submits this application along with their full measure of experience to undertake the endeavor.

Butte-Silver Bow GIS is experienced in grant administration and program management. At present, Butte-Silver Bow Planning Department is recipient and administrator of millions of dollars across many federal, state and local programs such as Neighborhood Stabilization Program dollars through the United State Department of Housing and Urban Development, State of Montana Community Transportation Enhancement Program (CTEP) dollars, State of Montana Department of Natural Resource Conservation (DNRC), and State of Montana Natural Resource Damage Grant funds (NRDP). Butte-Silver Bow GIS is the previous recipient of two Montana Land Information Act (MLIA) awards which have resulted in dramatic updates to the quality of nearly every aspect of BSB spatial data. Butte-Silver Bow GIS skills have made possible enhancing the integrity and functionality of existing datasets for all facets of community development, including public health, emergency response services, economic development, land use planning, and sensitive resource protection. It is now time to modernize our operations to make these items readily accessible online.

The project team is comprised of numerous members with various backgrounds. Lead personnel are described below.

Jon C. Sesso – BSB Planning Director
Mr. Sesso has 20+ years experience in project and grants management, including several NRDP grants. He will oversee all aspects of the project and direction. He has served as Contract Administrator for several state grant programs, including a number of NRDP grants; his experience and expertise with the NRD program and all contract provisions associated with a grant award will help ensure the project is managed effectively. In addition, his use of spatial data to illustrate the impact of a proposed policy will enable him to assist with all aspects of project implementation, as needed.

Pat Riordan – BSB GIS Specialist III
Mr. Riordan has 20+ years of GIS experience in municipal and natural resource projects. He will co-coordinate and manage the project on a daily basis for the Planning Department/GIS Office. He will be responsible for data management, including feature layer management and maintenance.

Jeff Miller - BSB Fire Chief
Chief Miller has 20+ years of Emergency Service delivery in Silver Bow County. Chief Miller is the driving force behind digitized emergency service data that assists with the efficient delivery of emergency services to rural Silver Bow County. Chief Miller has been instrumental in guiding BSB's custom map products for BSB Fire Department and will serve as an advisor to our program.

Stephen Foreman – BSB GIS Programmer/Specialist III
Mr. Foreman has 10 years of experience in GIS programming and data maintenance using Microsoft Access, Visual Basic, and SQL server. He will assist with in-house data management, coordinate hardware and software operations, and assist with the upload of base layers.

Julia Crain – Special Projects Planner
Ms. Crain has 5 years experience in urban planning and community development. She is skilled in outreach and public meeting facilitation and regularly utilizes GIS illustrations as a planning tool to generate discussion and solicit feedback from the public. Ms. Crain will leverage this experience to coordinate education associated with the launch of the mapping application.

Other Administrative Staff
Clerical support will contribute, as needed.

Ken Wall, Geodata Services, Inc.
Ken Wall, President of Geodata Services, Inc. is a CTT+ certified Technical Trainer and a gold level CommunityViz consultant.

STEP 5 – Budget Justification Narrative and Tables

The total project cost is $18,296.60. The sponsor requests $7,500.00 through the MLIA program and pledges $10,796.60 as an in-kind match of staff time and direct and indirect expenses.

Butte-Silver Bow Geographic Information Services
BSB Rural Emergency Services Online
2015 MLIA Grant Application
Feb. 2015

Category	Annual Hours	MLIA Share	Applicant Share	Other Share	Total
Personnel					
Jon C. Sesso, Planning Director	40	$ -	$ 1,631.60	$ -	$ 1,631.60
Pat Riordan, GIS Specialist III	75	$ -	$ 2,250.00	$ -	$ 2,250.00
Jeff Miller. Fire Chief	50	$ -	$ 2,000.00	$ -	$ 2,000.00
Steve Foreman, BSB GIS Programmer/Specialist III	25	$ -	$ 625.00	$ -	$ 625.00
Julia Crain, Special Projects Planner	25	$ -	$ 550.00	$ -	$ 550.00
Subtotal Salaries		$ -	**$ 7,056.60**	$ -	**$ 7,056.60**
Fringe Benefits, 53% of Wages		$ -	$ 3,740.00	$ -	$ 3,740.00
Total Salaries, Wages and Benefits		$ -	**$ 10,796.60**	$ -	**$ 10,796.60**
Travel		$ -	$ -	$ -	$ -
Equipment		$ -	$ -	$ -	$ -
Supplies		$ -	$ -	$ -	**$ -**
Contractual		$ 7,500.00	$ -	$ -	**$ 7,500.00**
Peer-to-Peer Training		$ 5,000.00	$ -	$ -	**$ -**
ESRI ArcGIS Online Subscription		$ 2,500.00	$ -	$ -	**$ -**
Other		$ -	$ -	$ -	$ -
Project Totals		**$ 7,500.00**	**$ 10,796.60**	**$ -**	**$ 18,296.60**

Personnel
Silver Bow County estimates approximately 200 hours of staff time, at varying rates ranging from $22 to $40.00 per hour or $7,056.60. Benefits are calculated at 53% of total wages or $3,740.00. BSB considers wages and benefits as an in-kind project match of $10,796.60. The primary BSB employee working on this project will be Pat Riordan, GIS Specialist III, who will serve as project manager. Mr. Riordan will dedicate a minimum of 75 hours to this project. Jon Sesso, Planning Director, will provide project direction, Stephen Foreman, GIS Programmer, will assist Mr. Riordan with processing and maintaining thematic data sets and populating the online mapping. Julia Crain, Special Projects Planner, will direct outreach and education to meet the education objectives outlined in this grant application.

Travel
Not applicable.

Equipment
Not applicable.

Supplies
Not applicable.

Contractual
Through this grant of MLIA funds, Butte-Silver Bow will subscribe to a one –year subscription to ESRI ArcGIS Online ($2,500), one-year peer-to-peer support through GeoData Services ($5,000). The peer-to-peer support will account for 40 hours of consulting and 20 hours of training.

STEP 6 – Statements of Support

Statements of support must be included from any party listed as a project partner (see page six for the definition of a project partner). DO NOT include other statements of support as they will not be evaluated.

STEP 7 – Renewable Grant Accountability Narrative

Not applicable.

STEP 8 – Sign the Application

Authorizing Statement

I hereby certify that the information and all statements in this application are true, complete and accurate to the best of my knowledge and that the project or activity complies with all applicable state, local and federal laws and regulations.
I further certify that this project will comply with applicable statutory and regulatory standards.

I further certify that I am (by my signature) authorized to enter into a binding agreement with the Montana State Library to obtain a grant if this application receives approval.

_____
Lori Casey
Butte-Silver Bow Acting Planning Director

_____
Date