



2023 Interim Budget Committee Report

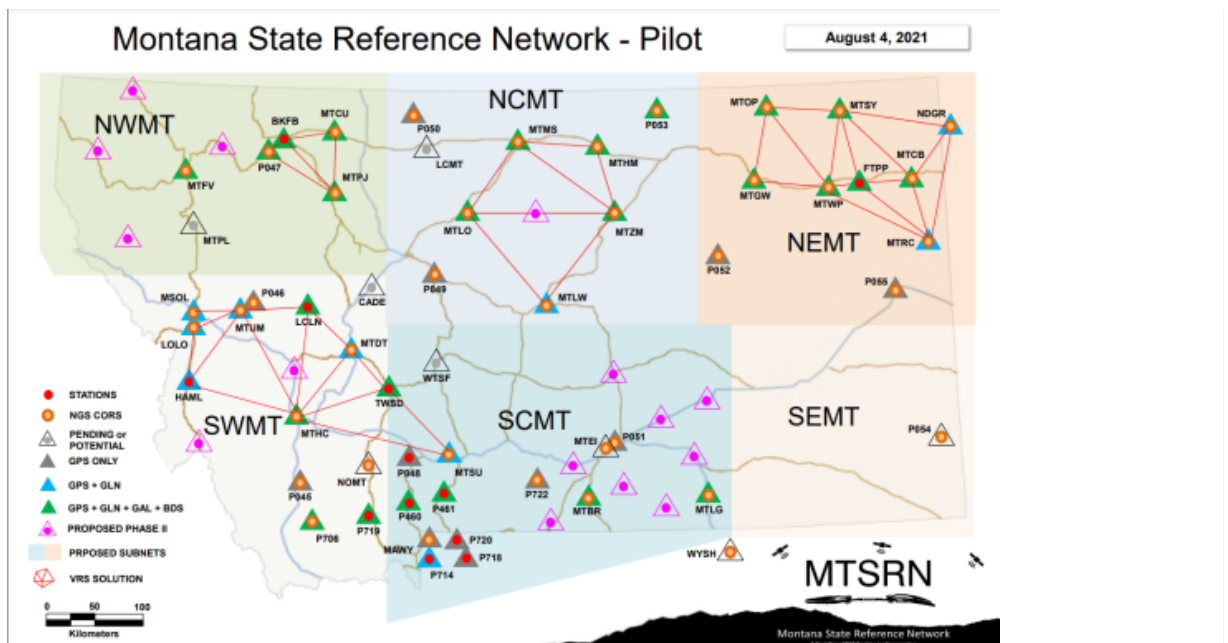
Montana State Library (MSL)

September 7, 2021

Montana Real Time Network

Purpose

To develop and sustain a statewide network of GPS base stations that provides customers access to a real-time GPS correction signal from any location in the state. The more immediate goal is to establish the foundation for a Real Time Network (RTN) that will be self-sustaining, and that will generate enough funding to allow it to expand statewide in 5-10 years.



Objective 1

Establish an RTN administrative office at MSL with the capacity to bring the current pilot network (presently operated in partnership with the Washington Reference Network) under Montana direction.

The RTN administrator will perform outreach to potential user communities across the state including the surveying, engineering, public works, and GIS communities.

Anticipated start date: January 1, 2021

Metrics:

- An RTN coordinator is on staff.
- An RTN Working group is established and meets as needed to inform the operation and expansion of the RTN.
- MSL regularly reports the status of the RTN to key stakeholders including the Legislature, the Montana Land Information Advisory Council and the surveying community.

Objective 2

Develop and implement a subscription-based funding model that funds the current network operation and expands the network when one time only (OTO) funding is no longer available.

The RTN administrator will finalize and recommend a sustainable business model that takes into account the hardware, software and operational costs of the network and that anticipates growth of the RTN over time.

Metrics:

- An RTN business plan is complete and put into practice.
- Customers subscribe to the RTN.

- Revenue is generated from the subscription service.

Objective 3

Operate the existing network and identify priority coverage areas through engagement with the user community and grow the network at a rate that can be sustained by ongoing subscription fees.

The RTN administrator will work with existing staff at MSL and MDT as well as Washington Reference Network staff to understand the ongoing pilot project and to determine how to seamlessly transfer it to Montana direction.

MSL will establish a working group to provide ongoing input for the prioritization of RTN growth both in terms of expansion across the state as well as features and other user needs to be considered for inclusion in the network.

Metrics:

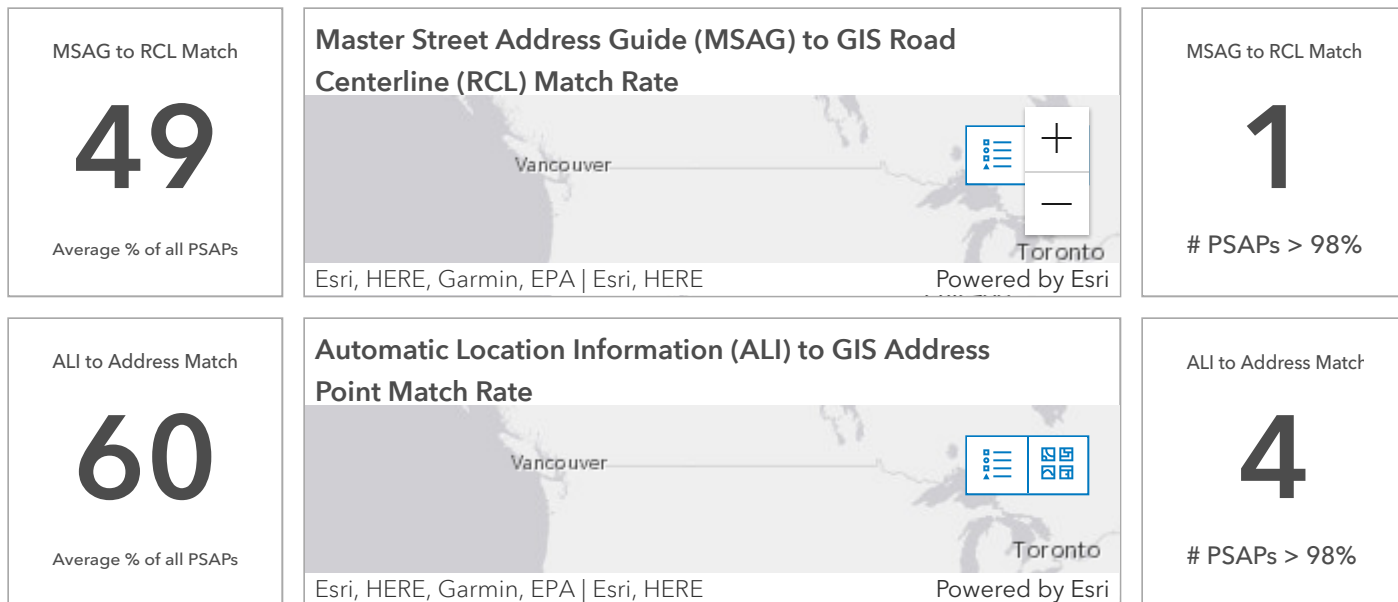
- The number of reference base stations increases to meet Montana's business needs.

House Bill 50

Redistribute 9-1-1 Funding to State Library

Purpose

The 9-1-1 GIS mapping account may be used only by the state library provided for in 22-1-102 in carrying out its coordination and management responsibilities to collect, maintain, and disseminate GIS land information in the state as it pertains to supporting public safety answering points on the ongoing assessment and improvement of next-generation 9-1-1 GIS data sets.



Objective 1

Provide a cost efficient and standardized means for all Public Safety Answering Points (PSAPs) in Montana to regularly assess their 9-1-1 GIS data for Next Generation 9-1-1 (NG9-1-1) readiness and for local and state 9-1-1 and GIS stakeholders to track progress of GIS data readiness statewide.

MSL will procure a cloud-based service for use by all PSAPs to perform ongoing assessment of their 9-1-1 GIS data. This service will also enable MSL to track and report on NG9-1-1 GIS readiness at the state level.

Anticipated contract date: January 1, 2021

Metrics:

All 52 PSAPs have access to and use the cloud-based data assessment service

MSL regularly reports on NG9-1-1 GIS data readiness to GIS and 9-1-1 stakeholders, including the Legislation, the Montana Land Information Advisory Council and the 9-1-1 Advisory Council

Objective 2

Coordinate the development, improvement, and maintenance of local and statewide GIS datasets required for NG9-1-1. NG9-1-1 requests accurate data updated in near real-time.

Local governments use data assessments to improve relevant GIS data to meet national NG9-1-1 standards. The frequency at which local governments use the service and update their data will depend on resources available within the local jurisdiction.

MSL will leverage the cloud-based data assessment service and work with PSAPs and their GIS data providers to develop, improve, and maintain the GIS datasets required for NG9-1-1. Initially, MSL plans to update statewide datasets annually.

Metrics:

Readiness of individual PSAP's GIS data, as measured by the cloud-based data assessment service, will improve as PSAPs prepare their data for NG9-1-1

GIS datasets required for NG9-1-1 will be routinely updated and available at a statewide extent. Examples of statewide GIS datasets include emergency response boundaries for law enforcement, fire and emergencies.

House Bill 49

Revise Recording Fees to Support County and State Land Information Accounts

Purpose

To develop a standardized, sustainable method to collect, maintain, and disseminate information in digital formats about the natural and artificial land characteristics of Montana. Land information changes continuously and is

needed by businesses, citizens, governmental entities, and others in digital formats to make informed and timely decisions.

As required by the Montana Land Information Act (MLIA), MSL creates an annual land information plan to prioritize investment in GIS data.

FY2022 Land Information Plan

Montana Lidar Inventory

Introduction

Next: Acquisition Status Map

 **esri** A Story Map



Land Plan Goal

The existence of a sustainable and collaborative Montana Spatial Data Infrastructure (MSDI) that is, in accordance with standards, consistently collected, accurately maintained, and disseminated.

Objective 1

To improve the Elevation MSDI Framework by collecting statewide Lidar. MSL will continue to serve on national elevation working group. MSL will leverage federal funding opportunities for lidar acquisitions, become the repository

for lidar data in Montana, and provide high-resolution elevation data.

Metrics:

- The percentage of Lidar coverage for Montana continues to increase.
- Montanans download and request Lidar data from MSL to meet business needs.
- MSL publishes improved Lidar data products that provide value-added data.

Objective 2

To improve the Transportation Framework and develop a data collection plan to continue to improve the theme. MSL will create a new Transportation database that aligns to adopted state and national standards. MSL will work to collect and integrate data from local governments and document the data collection process.

Metrics:

- MSL publishes a Transportation data collection plan.
- MSL publishes new statewide Roads Centerline data schema and updates data for at least 20 counties by the end of the biennium.

Objective 3

Improve the Cadastral Framework by collecting and integrating new survey control data. MSL will partner with state, local, or tribal entities through the MLIA Grant Program to collect new survey control. Staff will also document a process for statewide data collection of new survey control.

Metrics:

- MSL partners collect a minimum of 100 new survey control points by the end of the biennium.
- MSL integrate new control into existing cadastral datasets and report the improved spatial accuracy of parcels and boundaries in feet.
- MSL publishes a written survey control data collection plan.

Objective 4

Improve the Administrative Boundaries Framework by collecting and sustaining a statewide voting unit GIS Layer. MSL will partner with the Secretary of State's office, local GIS managers, and County Election Administrators to collect data needed for establishing statewide voting unit GIS data.

Metrics:

- MSL will collect a minimum of 20 counties' voting unit GIS data by the end of the biennium.

Objective 5

Implement process for writing MSDI Theme Specific Plans. The State GIS Coordinator will work with the Montana Land Information Advisory Council (MLIAC) and MSDI Theme Leads to document a process and expectations to write MSDI Theme Plans. The State GIS Coordinator will work with MSDI Theme Leads to support the process.

Metrics:

- MSL publishes a process to draft Theme Plans.
- By the end of the biennium MSL publishes two MSDI Theme plans.

Montana Lidar Inventory

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Land Plan Goal

Improved quality and efficiency of critical business processes of stakeholders through the use of GIS technology and adoption of MSDI data layers.

Objective 1

Assist the Secretary of State in integrating MSDI into the State Elections Process. MSL will assist the Secretary of State to implement the use of MSDI GIS datasets into the election management system.

Metrics:

- By the end of the biennium MSL integrates MSDI data layers, including addresses and boundaries, into BPro TotalVote Elections software.

Objective 2

Integrate MSDI into Environmental Review Permitting & Planning Processes. Montana Natural Heritage Program (MTNHP) staff will work to promote and train stakeholders on MTNHP's the geospatial tools.

Metrics:

- MTNHP staff conduct regularly trainings with stakeholders.
- Stakeholders report increase familiarity with MTNHP's geospatial tools.
- Users increase their use of Environmental Summary Reports to efficiently prepare environmental reviews.

Montana Lidar Inventory

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Next: Acquisition Status Map

 **esri** A Story Map



Land Plan Goal

The promotion of the use of GIS across the state through funding, coordination, education, and outreach.

Objective 1

Conduct Strategic Planning Process for GIS Coordination. MSL, in coordination with MLIAC, has contracted with a reputable geospatial firm to guide the library through the process and develop the strategic plan.

Metrics:

- MSL publishes a GIS Coordination Five-year Strategic Plan and Companion Business Plan.

Objective 2

Create Training Program for MSDI Data Partners and MLIA Grant Applicants. MSL will conduct a training needs assessment and develop a training program, based on the results of the assessment, for the purpose of educating local, state, and tribal government professionals on MSDI Data Standards/Best Practices, MSDI Data Development, and Grant Writing/Project Management.

Metrics:

- MSL publishes a Training Needs Assessment.
- Additional metrics based on results of the Training Needs Assessment.

Objective 3

The promotion of the use of GIS across the state through outreach. MSL will attend/present at relevant conferences and meetings including the MT Association of Counties, MT Association of Planners, MT Association of Registered Land Surveyors, MT League of Cities & Towns, State IT Conference, MT Association of Geographic Information Professionals, Tribal Transportation Planners Symposiums, the National States Geographic Information Council (NSGIC), Esri Senior Executive Seminar, and other meetings of subject matter experts.

Metrics:

- MSL reports attending meetings and number of participants at each meeting.
- Key stakeholders report increased awareness of data resources available to support business needs.

Objective 4

The promotion of the use of GIS across the state through

technical support sessions and training. MSL will hold technical support sessions for stakeholders and data partners, including but not limited to, local, state, tribal GIS/Professionals.

Metrics:

- MSL reports hours or number of technical trainings offered and number of participants.
- Attendees report increased knowledge, skills, and abilities to utilize GIS data, tools, and services.

Objective 5

The promotion of the use of GIS across the state through coordination. MSL will host Working Group meetings by theme.

Metrics:

- MSL reports the number of Working Group Meetings by MSDI theme.

Objective 6

Through the MLIA grant program, MSL will fund grants and will partner with local, state, and tribal entities for the purposes of implementing GIS and expanding the MSDI.

Metrics:

- The number of successful grants projects completed each year.
- The amount of funding leveraged by the grant program.
- The diversity of successful grants by project types and recipients.

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