

Draft Geospatial Information Plan

**This document will be updated prior to the upcoming 12/19/2024
MGIA Council Working Session**



MONTANA GEOSPATIAL INFORMATION PLAN



DRAFT OUTLINE & WORKING DOCUMENT



NOVEMBER 14, 2024
MONTANA STATE LIBRARY
msl.mt.gov/geoinfo

1 TABLE OF CONTENTS

Executive summary	3
Impact of geospatial data collection.....	3
<i>stories or case studies defining the impact of msdi</i>	3
1 prioritized needs to collect, maintain, and disseminate geospatial information	3
1.1 Maintain a sustainable spatial data infrastructure.....	3
1.2 Implement Scalable Geospatial Architecture to Support the Montana Spatial Data Infrastructure.....	3
1.3 Preparing for the Modernization of the NSRS.....	3
1.4 Research & Learn Geospatial Security Protocols & Policies	3
1.5 Partnering with CISA Geospatial Security Tabletop with MAGIP & Local Govts.....	3
1.6 Research and learn geospatial accessibility policies	3
1.7 Define and reduce the duplication of efforts.....	3
2 Priorities for geospatial coordination	3
2.1 Geospatial Governance: Policy, Standards, & Business Practices.....	4
2.2 Provide Geospatial Information and Technology Consultation to MSDI data partners, citizens.....	4
2.3 Education & Training.....	4
2.4 Communication & Outreach.....	4
2.5 Tribal	Error! Bookmark not defined.
3 montana geospatial information act Grant program	4
3.1 Maintain a grant program according Montana Code Annotated and Montan Rule.....	4
3.2 Conduct an Internal Review of MGIA Grant Program.....	4
3.3 Prioritize grant awards that directly impact the improvement of the following MSDI Themes and Initiatives:	4
1 improve communication for gis coordination	5
1.1 Define Audiences and appropriate communication methods and content.....	5
• Develop a communication plan for GIS Coordination that defines methods, audiences, schedule, and topics.....	5
• As appropriate, develop content for defined methods, audiences, and topics.....	5
1.2 Clearly define incoming communication pathways for support requests & public inquiries:	5
1.3 Restructure GIS Web Content for ease of use & discoverability.....	5
2 improve geospatial data governance through policies & best practices.....	5
2.1 Coordinate with the Montana CIO, CDO, and MGIAC to define geospatial governance scope and responsibilities.....	6
2.2 Complete a review, and if necessary, a revision, of the structure and process for geospatial data governance:	6

- https://ftpaspen.msl.mt.gov/EventResources/20240307084234_26130.pdf.....6
- 2.3 Educate stakeholders, including but not limited to the MSDI Theme Leads, governance structure/process for geospatial governance actions.....6
- 2.4 Adopt a Workplan to establish data governance principles and put policies in place that implement them. 6
- 3 create & strengthen partnerships6
 - 3.1 Maintain list of identified current & desired partnerships and corresponding models.....6
 - 3.2 Prepare for new partnership opportunities.....6
 - 3.3 Build processes to sustain and strengthen partnerships.....6
- 4 Improve MSDI Geospatial Data Value.....7
 - 4.1 Define datasets and data themes that should be examined for value-related data quality.....7
 - 4.2 Define measures of geospatial data value for datasets and data themes.....7
 - 4.3 Assess datasets and data themes using the value measures.....7
 - 4.4 Determine actions needed to improve the value of the selected datasets and data themes.....7
 - 4.5 Create MSDI Theme Plans.....7
- 5 Budget/funding source.....0
- POTENTIAL APPENDICES & SUPPLEMENTAL INFORMATION/RESOURCES.....0

WORKING DRAFT

EXECUTIVE SUMMARY

PLACE HOLDER | To be Written Last

IMPACT OF GEOSPATIAL DATA COLLECTION

STORIES OR CASE STUDIES DEFINING THE IMPACT OF MSDI

MONTANA GEOSPATIAL INFORMATION PLAN GOALS, OBJECTIVES & TASKS

1 PRIORITIZED NEEDS TO COLLECT, MAINTAIN, AND DISSEMINATE GEOSPATIAL INFORMATION

- 1.1 Maintain a sustainable spatial data infrastructure.**
- 1.2 Implement Scalable Geospatial Architecture to Support the Montana Spatial Data Infrastructure**
- 1.3 Preparing for the Modernization of the NSRS.**
- 1.4 Research & Learn Geospatial Security Protocols & Policies**
 - Work with stakeholders, including CISA, to plan for and execute a geospatial security tabletop exercise.
- 1.5 Research and learn geospatial accessibility policies**
- 1.6 Define and reduce the duplication of efforts.**

2 PRIORITIES FOR GEOSPATIAL COORDINATION

Prioritization is vital in time management as it helps individuals focus on what truly matters, allocate resources efficiently, and ensure that important tasks are completed in a timely manner.

2.1 Geospatial Governance: Policy, Standards, & Business Practices

2.2 Provide Geospatial Information and Technology Consultation to MSDI data partners, citizens

- Consult with current MSDI data partners to understand needs, plans, and collaboration opportunities.

2.3 Education & Training

- Implementation of MSDI Data within key State Workflows.
- Prepare for the implementation of the Modernized NSRS.
- Research and implement modern education tools for non-geospatial professionals.

2.4 Communication & Outreach

- Outline our activities per year for the 3-year period.
- Targeted outreach to Tribal Data Partners
- Funding Partners

3 MONTANA GEOSPATIAL INFORMATION ACT GRANT PROGRAM

3.1 Maintain a grant program according Montana Code Annotated and Montan Rule

- Improve and communicate MGIA Grant Program's grant criteria.

3.2 Conduct an Internal Review of MGIA Grant Program

- Present Internal Review Findings to the MGIA Council

3.3 Prioritize grant awards that directly impact the improvement of the following MSDI Themes and Initiatives:

MSDI Theme Priorities:

- Addresses & Structures
- Administrative Boundaries
- Cadastral
- Elevation
- Hydrography
- Transportation

Key Geospatial Data Initiatives:

- NG9-1-1 County Data Development
- Geo-Enabling Montana's Elections
- 3DHP/Elevation Derived Hydrography Project

Goals, Objectives & Tasks Aligned to the Strategic GIS Coordination Plan

1 IMPROVE COMMUNICATION FOR GIS COORDINATION

1.1 Define Audiences and appropriate communication methods and content

- Develop a communication plan for GIS Coordination that defines methods, audiences, schedule, and topics.
- As appropriate, develop content for defined methods, audiences, and topics.

1.2 Clearly define incoming communication pathways for support requests & public inquiries:

- Restructure and conduct annual review of Service Now Tier 1 Support Team.
- Publish Knowledge Base.
- Conduct quarterly review to identify changing needs, increasing demands, improve the Knowledge Base.
- Continue to train stakeholders, public, data providers on how to submit data inquiries or support requests through Service Now.

1.3 Restructure GIS Web Content for ease of use & discoverability

- Finalize implementation of Montana Geospatial Data Portal, using ArcGIS Hub technology.
- Train MSDI Theme Leads, data providers, and other key stakeholders on how to use and discover data through the Montana Geospatial Data Portal.

2 IMPROVE GEOSPATIAL DATA GOVERNANCE THROUGH POLICIES & BEST PRACTICES

- 2.1 Coordinate with the Montana CIO, CDO, and MGIAC to define geospatial governance scope and responsibilities.**
- 2.2 Complete a review, and if necessary, a revision, of the structure and process for geospatial data governance:**
 - https://ftpaspen.msl.mt.gov/EventResources/20240307084234_26130.pdf.
- 2.3 Educate stakeholders, including but not limited to the MSDI Theme Leads, governance structure/process for geospatial governance actions.**
- 2.4 Adopt a Workplan to establish data governance principles and put policies in place that implement them.**
 - In Partnership with MGIAC, MSDI Theme Leads, MSDI Working Groups, & other stakeholders, identify the top priority policies and associated standards and/or best practices.
 - For each identified priority, define responsibilities and how it will be accomplished.
 - Use the approved workflow to review, vet, test, and approve policies: Montana Geospatial Data Standard, Creation, and Promulgation.

3 CREATE & STRENGTHEN PARTNERSHIPS

- 3.1 Maintain list of identified current & desired partnerships and corresponding models.**
 - Review catalog of partnerships.
 - Define desired outcomes of partnerships.
 - Review models as appropriate
- 3.2 Prepare for new partnership opportunities**
 - Define target projects or opportunities.
 - Prioritize partnerships opportunities.
- 3.3 Build processes to sustain and strengthen partnerships.**
 - Research & devise tools for managing partnerships.
 - Evaluate effectiveness of partnerships.
 - Annual Planning for Partner Conference/Events.
 - Research and devise a plan to host an Annual Partner Conference.

4 IMPROVE MSDI GEOSPATIAL DATA VALUE

4.1 Define datasets and data themes that should be examined for value-related data quality.

- This process has been completed for the Elevation & Addresses & Structures MSDI Framework Theme.

4.2 Define measures of geospatial data value for datasets and data themes.

4.3 Assess datasets and data themes using the value measures.

- Assess each MSDI Framework Theme data for current status, near-term quality implement, and long-term quality improvement.

4.4 Determine actions needed to improve the value of the selected datasets and data themes.

- Train MSDI Framework Theme Leads to develop Theme Specific Data Value Matrices.
- Develop MSDI Theme Plan Templates for implementation of identified data quality improvements.
- Train MSDI Theme Leads on the creation of MSDI Theme Plans
- Complete Data Value Matrices for each MSDI Framework Theme.

4.5 Create MSDI Theme Plans

- Develop MSDI Theme Plan Templates for implementation of identified data quality improvements.
- Train MSDI Theme Leads on the creation of MSDI Theme Plans.
- Convene appropriate MSDI Theme Working Groups.
- Develop plans for each identified MSDI Framework Theme Plans that identifies the following:
 - MSDI Theme Definition
 - Data Improvement Actions
 - Resources needs to achieve plan outcomes/actions.
 - How Progress/Achievements will be tracked and reported.

Montana Land Information FY2024 Budget	
Description	Allocated Funds
Personal & Indirect Costs	
Personal Services (estimate)	\$1,094,400.00
Agency Indirect Costs	\$176,600.00
Personal & Indirect Costs Subtotal	\$1,271,000.00
Operations	
Fixed Costs, General Operations*	\$125,000.00
MLIA Strategic Plan Priorities Implementation	\$90,000.00
Council	\$10,000.00
Land Cover MSDI Theme	\$20,000.00
Operations Subtotal	\$245,000.00
<i>*SITSD, Licensing, Travel, Training, & Outreach</i>	
MLIA Grant Funding	\$250,000.00
Grants Subtotal	\$ 250,000.00
Totals	\$ 1,766,000.00

HB2 - Special Land Information Act Budget FY2024 Biennium Appropriation - Montana RTN	
Description	Allocated Funds
Personal Services (estimate)	\$100,000.00
Operations	
Software, Outreach, Services, Fixed Costs, General Operations	\$362,500.00
Total	\$462,500.00

5 BUDGET/FUNDING SOURCE

Goals & Objectives	FY25	FY2026			FY2027			FY2028		
		Approp.	Budget	Gap	Approp.	Budget	Gap	Approp.	Budget	Gap
Goal 1										
Obj. 1.1										
Goal 2										
Obj. 2.1										
Goal 3										
Obj. 3.1										

Prioritization is vital in time management as it helps individuals focus on what truly matters, allocate resources efficiently, and ensure that important tasks are completed in a timely manner.

More text Here

POTENTIAL APPENDICES & SUPPLEMENTAL INFORMATION/RESOURCES

i. GUIDING MONTANA MCA & ARM

a) MCA

b) ARM - [10.102.9104 GEOSPATIAL INFORMATION PLAN](#)

- (1) A geospatial information plan will be developed to meet the purpose of the Montana Geospatial Information Act, including the coordination, creation, collection, maintenance, integration, or dissemination of MSDI themes, geospatial standards, or other associated work.
- (2) Theme stewards may provide to the council suggested specific goals and objectives relating to the theme they represent.
- (3) By September 1 of each fiscal year, the State Library will complete a review of the geospatial information plan.
- (4) If a rewrite or updates are necessary, the State Library will prepare the geospatial information plan and the budget necessary to carry out these duties and responsibilities. The plan will include specific goals and objectives based upon input from theme stewards, the state library and comments received during the public comment period along with a budget for the state library's duties and responsibilities as defined in 90-1-404, MCA.
- (5) The State Library will seek public comment on the plan.
- (6) The State Library will submit the draft plan to the council and the council will advise the State Library

KEY DATES

- By September 1 of each fiscal year, the State Library will complete a review of the geospatial information plan. (MT ARM 10.102.9104 (3))
- By May 1 of each even-numbered year, the State Library, based on grant criteria and with advice of the council, will identify and prioritize grant applications that meet the grant criteria and warrant approval. Previously approved multiyear projects must be placed at the top of the priority list. The State Library will distribute the results to the council. (MT ARM 10.102.9105 (3))
- By May 15 of each even-numbered year, the State Library commission, with advice of the council, will award grants. (MT ARM 10.102.9105 (4))