01 – GEE Overview and Progress
02 – Election District Boundaries & Redistricting Resources
03 – Precinct Split Map Creation
04 – Addressing for Geo-Enabled Elections
05 – Grant Program & Other Resources
Key Players and Roles

**Montana Secretary of State**

Manages the Election Management System (EMS)

**County Governments**

County Election Administrators update the Election Management System (EMS) with Districts, Precinct Splits, Voter Info, and provide boundaries to MSL

**Montana State Library**

Update and maintain addresses, boundaries, and precinct splits
Strategy

**Step 1**
Develop Election Boundary Datasets

**Step 2**
Testing in the Election Management System

**Step 3**
Refinement of Datasets

**Step 4**
Implementation and Publishing

**Step 5**
Data Maintenance
Goal: Create Precinct Splits for each County

What is a Precinct Split? Basically, a Ballot

• A Precinct Split is a subset of a Voting Precinct created by the various Election District Boundaries

• Not every County has an election for each type of district
  - Example: Hospital Districts

• Most counties have many of the same type of district
  Examples: Schools and Fire Districts
# Election Calendar

<table>
<thead>
<tr>
<th>Month</th>
<th>Even Years</th>
<th>Odd Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>Candidate Filing / Address Updates</td>
<td>Candidate Filing / Address Updates</td>
</tr>
<tr>
<td>February</td>
<td></td>
<td>Candidate Filing / Address Updates</td>
</tr>
<tr>
<td>March</td>
<td>Primary Ballot Certification</td>
<td>Special Districts Ballots</td>
</tr>
<tr>
<td>April</td>
<td>Special District Ballots / Ballots to UOCAVA for General Election</td>
<td>Special Districts Ballots</td>
</tr>
<tr>
<td>May</td>
<td>Special District Elections</td>
<td>Special District Elections</td>
</tr>
<tr>
<td>June</td>
<td>Primary</td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>Address Updates</td>
<td>Address Updates</td>
</tr>
<tr>
<td>August</td>
<td>Ballot Certification</td>
<td>Municipal Primary Ballots</td>
</tr>
<tr>
<td>September</td>
<td>UOCAVA Ballots</td>
<td>Municipal Primary</td>
</tr>
<tr>
<td>October</td>
<td></td>
<td>Municipal General Ballots</td>
</tr>
<tr>
<td>November</td>
<td>General Election</td>
<td>Municipal General</td>
</tr>
<tr>
<td>December</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## January 17, 2024 – ElectMT went live!

- Address Updates happen twice a year
- Boundary updates can take place anytime

Indicates when the Montana Secretary of State (SOS) can update the Election Management System (EMS) with GIS Data Layers from the Montana State Library (MSL)
Geo-Enabled Elections Hub Updates

The Hub Site now has Redistricting Info:

- Links to Montana Code Annotated
- Interactive Maps/Apps
- Download Data Layers
- Access Population Analysis Reports
- View and Print Maps
- Video describing resources
- ArcGIS Pro Tools and Project
- List of Redistricting Software
- List of GIS Contractors from MAGIP

https://geoenabled-elections-montana.hub.arcgis.com/pages/redistricting
Goal: Provide GIS Layers for Election System

Current Base Layers (Foundational):
- County
- City
- Zip Code
- School (recently added!)

Requested:
- Legislative Senate and House Districts (2024-2032)
- County Commissioner Districts
- Updated basemap in TotalAddress

Updated as needed in TotalAddress
- MSL sends SOS a geoJSON file to upload
Goal: Map All Election Districts and Precinct Splits

Election District Status
- Annexations
- New Districts and resolutions
- Missing 6 water/sewer districts

Redistricted County Commissioner Districts
- Missing Golden Valley and Treasure

2023 Voting Precincts
- Missing Chouteau, Glacier, Missoula, Powder River, and Valley

Created Precinct Splits for all counties
- Continue to work with counties to refine their Election Districts and Precinct Split Boundaries
Boundary Update Workflow

**Step 1**
Collect District Boundaries from Local Authority: County Election Administrators & GIS Managers

**Step 2**
Create Schema & Data Layers

**Step 3**
Digitize District Boundaries

**Step 4**
Review EMS Updates/Update Districts in SDE

**Step 5**
Publish District Boundaries
Precinct Split Map Creation
Caroline Psaltis
### Precinct Splits Generation Requirements

- A table of precinct splits per county from ElectMT with each district name and type in split.
- Each election district in a county needs to be digitized and/or have its boundary updated to reflect the most up to date information.
- A field in each district layer that matches the name in the precinct-splits table.

<table>
<thead>
<tr>
<th>County</th>
<th>Precinct Name</th>
<th>District Name</th>
<th>District Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blaine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flathead</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powell</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stevens</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(More data entries follow similar format.)
Precinct Splits Generation
Precinct Splits Generation – Fergus County
Precinct Splits Generation – Fergus County

Voting Precincts

Schools
Precinct Splits Generation – Fergus County

Adding Cities/Wards
Precinct Splits Generation – Fergus County
Precinct Splits – MSL to ElectMT

**MSL**
- Downloads precinct splits data from ElectMT (Wednesdays)
- Digitize all election district boundaries (based off maps, resolutions, and any GIS data)
- Overlays county election districts and matches to ElectMT data
- Sends county the maps, copy of precinct splits layer, and any boundary questions to county EA
- Sends precinct splits data layer (map) to SOS

**SOS**
- Uploads precinct split map to TotalAddress

**County EA/Clerk and Recorder**
- Reviews precinct splits map in TotalAddress
- Notifies MSL of any corrections/updates
Statewide Splits Update

Voting Precinct Splits Status Dashboard

Beaverhead County (In-Progress)
Splits Sent: Yes
Total Splits: 35
Complete Splits: 33
Percent Complete: 94%
Total Splits (No Duplicates): 35
Percent Complete (No Duplicates): 94%
Date Splits Last Sent to SOS: 6/05/2023

Big Horn County (In-Progress)
Splits Sent: Yes
Total Splits: 52
Complete Splits: 46
Percent Complete: 88%
Total Splits (No Duplicates): 50
Percent Complete (No Duplicates): 92%
Date Splits Last Sent to SOS: 10/11/2022

Blaine County (Complete)
Splits Sent: Yes
Total Splits: 24
Complete Splits: 24
Percent Complete: 100%
Total Splits (No Duplicates): 24
Percent Complete (No Duplicates): 100%
Date Splits Last Sent to SOS: 3/25/2022

Broadwater County (In-Progress)
Splits Sent: Yes
Total Splits: 16
Complete Splits: 14
Percent Complete: 88%
Total Splits (No Duplicates): 16
Percent Complete (No Duplicates): 88%

Montana Geo-Enabled Elections • Supported by the Montana Spatial Data Infrastructure

Precinct Splits Sent to SOS
84.5%

Counties Sent to SOS
56

*Pre-Redistricting data
Precinct Splits Coverage – March 2022

* Submitted to SOS before 4/1/2022, pre-redistricting
Precinct Splits Coverage – March 2023

*As of 3/26/2023, pre-redistricting
Redistricting

And the flowers are still standing...
... Wash, Rinse, Repeat
<table>
<thead>
<tr>
<th>Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Counties Submitted to SOS</strong></td>
</tr>
<tr>
<td>56 of 56 (100%)</td>
</tr>
<tr>
<td><strong>Number of Splits Sent to SOS</strong></td>
</tr>
<tr>
<td>3040 of 3040 (100%)</td>
</tr>
<tr>
<td><strong>Total Number of Election District Types</strong></td>
</tr>
<tr>
<td>33</td>
</tr>
<tr>
<td><strong>Number of Unique Districts</strong></td>
</tr>
<tr>
<td>2,315</td>
</tr>
<tr>
<td><strong>County with the most Splits</strong></td>
</tr>
<tr>
<td>Missoula - 333</td>
</tr>
<tr>
<td><strong>County with the fewest splits</strong></td>
</tr>
<tr>
<td>Treasure/Meagher - 2</td>
</tr>
</tbody>
</table>

Statistics as of 3/26/2023 (pre-redistricting)
04
Addressing for Geo-Enabled Elections
Address Data Requirements

- Complete address point data for entire County, including incorporated cities/towns
- Standardized GIS address point data (to NENA NG9-1-1 standards), including Postal Community names and ZIP Codes
  - NENA NG9-1-1 standardized data can be reformatted to USPS Pub28 standard that meets elections needs
- Address point located on structure/rooftop
Voter Address Maintenance

- TotalAddress will be updated twice a year:
  - January/February
  - June/July (later this year)
- New update process will be a comparison between TotalAddress and GIS (rather than a complete re-geocoding of the voter addresses)
  - This will catch changes that were made in TotalAddress but not in GIS, and visa versa
- Process will be evaluated county-by-county
  - Some counties may need to be re-geocoded due to the amount of change (mostly in the GIS data), while others may have less changes (incorporating new/updated addresses since December)
Voter Address Maintenance

• In between biannual TotalAddress updates, Elections Administrators and those assigning new addresses and maintaining GIS address points need to coordinate
  • As new addresses are assigned, make sure they are added to both GIS and TotalAddress, with attention paid to exactly match the Lat/Long and address
  • As issues are discovered with existing addresses, either the location and/or with the address itself, make sure updates are made to both TotalAddress and GIS
• A number of counties are using ArcGIS Online web maps/applications to share their most current address data for elections staff to reference
Age of GIS Address Point Data at MSL
Montana Addressing Data

THERE CAN BE

ONLY ONE
04 Resources
Montana Geospatial Information Act Grant Program

**Tier 1 Priorities** - Create or update datasets and develop workflows for the purpose of continued participation in the Montana Spatial Data Infrastructure or other statewide data collection initiatives listed below:


b. Montana Spatial Data Infrastructure Improvement to Cadastral and Administrative Boundaries Themes

c. Integrating GIS into the Planning and Preparation for Geo-Enabled Elections.
# MLIA Grant Projects Awarded for Current Grant Year - FY2023

<table>
<thead>
<tr>
<th>Rank</th>
<th>Applicant</th>
<th>Identified Priority</th>
<th>Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Missoula County</td>
<td>Build GIS Capacity: Local Information Needs</td>
<td>$43,703</td>
</tr>
<tr>
<td>2</td>
<td>Butte-Silver Bow</td>
<td>Support NG 9-1-1</td>
<td>$43,520</td>
</tr>
<tr>
<td>3</td>
<td>Beaverhead County</td>
<td>Support NG 9-1-1</td>
<td>$38,500</td>
</tr>
<tr>
<td>4</td>
<td>Stillwater County</td>
<td>Improve Land Records: PLSS</td>
<td>$21,000</td>
</tr>
<tr>
<td>5</td>
<td>McCone County</td>
<td>Improve Land Records: PLSS</td>
<td>$45,000</td>
</tr>
<tr>
<td>6</td>
<td>Meagher County</td>
<td>Support NG 9-1-1</td>
<td>$26,000</td>
</tr>
<tr>
<td>7</td>
<td>Teton County</td>
<td>Geo-Enabled Elections</td>
<td>$16,000</td>
</tr>
<tr>
<td>8</td>
<td>Custer</td>
<td>Support NG 9-1-1</td>
<td>$16,277</td>
</tr>
</tbody>
</table>
## MGIA Grant Projects Awarded for Current Grant Year - FY2024

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</tr>
<tr>
<td>2</td>
<td>Fort Peck Assiniboine &amp; Sioux Tribes</td>
<td>Improve Land Records: PLSS</td>
<td>$43,520</td>
</tr>
<tr>
<td>3</td>
<td>Blaine County</td>
<td>Improve Land Records: PLSS</td>
<td>$38,500</td>
</tr>
<tr>
<td>4</td>
<td>City of Great Falls</td>
<td>Improve Land Records: PLSS</td>
<td>$21,000</td>
</tr>
<tr>
<td>5</td>
<td>Sheridan County</td>
<td>Support NG 9-1-1</td>
<td>$45,000</td>
</tr>
<tr>
<td>6</td>
<td>Custer County</td>
<td>RTN Network Buildout</td>
<td>$26,000</td>
</tr>
<tr>
<td>7</td>
<td>Broadwater County</td>
<td>Support NG 9-1-1</td>
<td>$16,000</td>
</tr>
</tbody>
</table>
Other Resources Available to Counties

Funding Opportunity through Montana Secretary of State’s Help America Vote Act (HAVA) Funding.

Funding can be used for development of necessary GIS Data Layers to Support County’s Geo-Enabled Elections Efforts.
Montana State Library Team

Erin Fashoway – Montana GIS Coordinator
Michael Fashoway – Land Info Lead
Meghan Burns – GIS Analyst, MSDI Boundaries Theme Lead
Caroline Psaltis – GIS Specialist, GeoEnabled Elections
Thank you!