MetroGIS Coordinating Committee
June 8, 2023

1 ) Call to Order

2 ) Approve Today’s Meeting Agenda

3 ) Approve Minutes from last meeting on Jan 26, 2023
   Minutes are available at metrogis.org
Why we are here:

#1 - Regional Datasets
• Stable, continued, on-going, maintenance of the regional datasets
• Regional datasets remaining high quality and accurate
• Ease of access and reliability of the regional datasets
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#2 – Meet the needs of the participants
• A place to communicate, discuss, and explore ideas
• A place to ask for what you want and need

#3 – Take on projects appropriate to the collaborative
• Projects and initiatives to meet our shared needs
4) Guest Presentation

Multi-city stormwater data assembly and testing using the drat MSWGP schema

Alex Steele, Minnehaha Creek WSD
Kendell Hillis, Bolton & Menk
5) County Food Resources Maps

Ramsey and Hennepin County Public Health Departments

Web maps showing food resources within their respective counties
Hennepin Co.

Health Promotion

Free food resource map
There are many places to access free food in Hennepin County. This map shows food shelves, food box programs, and free meal sites.

How to use the map
Click on an icon on the map below to find more information about that location, including what kind of food it offers, where, and when. Some locations have restrictions on who can get food, so please call or check their website before visiting.

 Ramsey Co.

Customer Contact Center
651-255-8500
(Monday - Friday, 8 a.m. - 4:30 p.m.)

Ramsey County COVID-19 information
Food resources
Food assistance
Community resources
Food pantry 5700 Mpls
Home meal delivery
Urban Ag & Community Gardening

If you see an error in a location’s information, please report it via the Form.
Please provide feedback on the Food Access website via this survey.
Info about each site
Hennepin & Ramsey - Food Resource Sites Data Sharing

Food resources data from a variety of sources

Ramsey County Health & Wellness
Ramsey County GIS/Information Services
USDA (SNAP)
MDH (WIC)
Editor Application
Ramsey County GIS SDE
RC Food Resources Dataset
RC Food Resources Dataset Web Service

Hennepin County Health & Human Services GIS
HC Food Resources Dataset
HC Food Resources Dataset Web Service

RC Food Resources Web Map
HC Food Resources Web Map
5) County Food Resources Maps

- Other counties working on this?
- Any regional interest?

Food assistance

The Supplemental Nutrition Assistance Program (SNAP) helps people with low income to buy the food they need for sound nutrition and well-balanced meals. The program issues benefits electronically on a card that’s used to buy food at local stores.

Apply for benefits

We're changing the way we serve you by offering services in a way that is more convenient for you. Apply for economic benefits whenever, wherever. Apply online at [ Vicknair.org ] or call 612-596-1300 during business hours.

Upload documents online

Upload documents directly to your case with [ ICB iConnect ], a safe and secure online option.
2023 MetroGIS Project Updates
LIDAR Project Update

Woolpert has collected the Metro region as part of the Central Mississippi Region (18 Counties)

Preliminary data is at USGS

Delivery of data to counties sometime in 2023
June 8, 2023, Status

- All 2022 collected data in calibration/processing for anticipated preliminary delivery in Winter 2022/23. The delivery priority to the USGS are the 30ppsm areas.

- **Work Unit Status:**
  - MN_CentralMissRiver_1_B22 (30ppsm): Provisional data accepted by USGS on May 15, 2023, copy shipped to state on May 20, 2023.
  - MN_CentralMissRiver_2_B22: Preliminary data shipped to USGS for review on April 21, 2023.
  - MN_CentralMissRiver_4_B22 (30ppsm): Preliminary data shipped to USGS for review on April 6, 2023, received comments for review on June 8, 2023.
  - MN_CentralMissRiver_5_B22: Preliminary data shipped to USGS May 20, 2023.
  - MN_CentralMissRiver_3_B22: Data fully acquired, in processing to deliver in December 2023.

- **Preliminary Data:** Shipped only to USGS for quality review.
- **Provisionally accepted data:** After preliminary review and quality acceptance. Can be shipped to the stakeholders, no vertical accuracy checks done. Restrictions on use.
- **Final Accepted data:** All data quality and vertical accuracy accepted, can be used without restriction.
Learn about lidar and the need for a new lidar collection in Minnesota. This website provides resources, plans to acquire and support lidar, and current status information for the Minnesota Lidar Plan. The website is developed and maintained by the Geospatial Advisory Council 3D Geomatics (3DG) Data Acquisition Committee and facilitated and supported by the Minnesota Geospatial Information Office (MnGeo), an office of Minnesota IT Services (MITS).

Events / News

Featured Resources

https://lidarhub-minnesota.hub.arcgis.com/
External Platform Publishing

Metro regional datasets made available to/integrated with/published in:

• ESRI Community Basemap
• Google Maps
• Open Street Map
• HERE
MLCCS Project
(Minnesota Land Cover Classification System)

Existing MLCCS data is from 2011
Metro region data is incomplete

MetroGIS providing $26,500 in 2023 toward new land cover data collection process

Contract between MetCouncil/DNR is executed
Work underway...
Regional Data Provisioning and Maintenance
Support the mission of MetroGIS through the continued availability of...

- **Standardized**
- **Authoritatively-sourced**
- **Complete**
- **Accurate and timely**
- **Relevant**, and
- **Publicly available**

...geospatial datasets for the metropolitan region.
Regional Data Provisioning and Maintenance

**Initial Scope:**
Provisioning & maintenance of the **Metro Road Centerlines & Metro Address Point datasets** including support for the **NG9-1-1 workflow process**

**Team:**
Jon Hoekenga & Sean Murphy (Metropolitan Council), Marcia Broman & Pamela Oslin (MESB) Geoff Maas (Chair, MetroGIS CC/Ramsey County)
Others are welcome to participate and contribute
Regional Data Provisioning and Maintenance

- **Address data content items** inhibiting regional data from being integrated into ESRI’s Community Map Program and World Geocoding Service

- **Implement improvements to the MetroGIS regional data validation process** & GAC standards compliance

- **Document ongoing address and road data workflows**, including connections with NG9-1-1

- **Identify roadblocks** to sustaining the regional road centerline (RCL) and regional address points (ADP) datasets in the long term
Project Activity Status 6/8/23

• **Content for ESRI CMP & WGS:**
  • Work sessions with data producers (Sept and Oct 2022)
  • Data clean-up, tool enhancement and testing (Oct 2022-Feb 2023)

• **Met Council Data Validation/Aggregation Process Improvements:**
  • Updated tool rollout to data producers (Feb 2023)
  • Full transition to new tools (Mar 2023)
  • Improved, proactive regional process error reporting (tentative July 2023)

• **Address & Road Data Workflow Documentation:**
  • Initial draft documentation of:
    • City-County data workflow documentation using Ramsey County as test (May 2023)
    • Met Council/MetroGIS aggregation/validation/posting workflow (Mar-May 2023)
    • NG911 data workflow (MESB) (May 2023)
    • NG911 and GAC data workflows (MnGeo/DPS) (May 2023)
  • Review underpinning of inter-government agreements (TBD)
Regional GIS Data Provisioning

Re-think as regional data provisioning with NG9-1-1 as primary use case

Documentation of existing methods and processes for regional data maintenance

Best practices for accuracy and consistency of data

General data life-cycle models
(i.e., the workflow and process of the creation of new address or street to its appearance and maintenance in the data...
Address Point Process

**METHOD #1:**
New address is formally assigned by the municipality (City Addressing Authority)

- City releases notice of new address to its distribution list (Postal Service, telecom interest, utility companies, etc.)
- Municipality provides notification of new address information to Ramsey County Emergency Communications GIS Coordinator

**Reasons for new address:**
- New street established
- Street renamed
- New number assigned
- New lot(s)/building(s)
- Reconfiguring of existing lots
- New plat
- Plat revision

**METHOD #2:**
Discovered via 9-1-1 call to Ramsey County Dispatch Center

- Call to Ramsey County 9-1-1 Dispatch Center
- Address described in the call to dispatch is not valid or is not found in the system
- MESB validates 9-1-1 call logs against the Ramsey County address points data
- MESB reports any calls to Emergency Communications GIS Coordinator that do not have a primary address

- Dispatch provides notice of subject address to Ramsey County Emergency Communications GIS Coordinator
- Ramsey County Emergency Communications GIS Coordinator confirms presence and correctness of address in question with the City Addressing Authority contact
- Confirmation/resolution from City Addressing Authority on the veracity of the address in question

- Errors Found
- No Errors Found

- IS-GIS staff and Emergency Communications staff review and resolve any reported errors
- Python script publishes data to the Portal for collection, validation and aggregation by the Metropolitan Council
MESB Process

1. MESB Data Assembly
   - Download Regional ADP & RCL datasets from the Commons
   - Obtain current Regional PSAP/ESZ boundaries maintained internally
   - Acquire current Regional MSAG & ALI extracts from 911 vendor

2. MESB Prepares Datasets for NG9-1-1 Use Case
   - Remove irrelevant MSAG entries, remove irrelevant ALI entries; Summarize ALI
   - Remove retired, duplicate, and irrelevant ADPs; lean sub-address info (temporary)
   - Remove retired RCL segments
   - Add supplemental RCL for non-centerline & alt-name only geocodable addresses
   - Add supplemental RCL & ADP for PSAP area outside 10 counties
   - Modify attributes of county boundary streets (as needed)
   - Add supplemental ESZs for non-MESB PSAPs inside region; convert to full PSAP names; dissolve for response boundaries; create unique IDs
   - Add exception codes to ALI, ADP, and RCL features Modify content for NENA values in data, truncate parity & Vald_LPR, uppercase MSAG community & legacy street name fields
   - Add full legacy street name

3. MESB Uploads Datasets to GeoComm Data Hub
   - For NG911 validations
   - Submission includes ALI, MSAG, RCL, ADP, and boundary polygons (ESZ, PSAP, Law, Fire, EMS, Authoritative)
   - A single upload for all validations, results returned overnight
   - Includes GIS derived MSAG

4. MESB conducts QA/QC & Error Analysis
   - Investigate & vet errors
   - Submit ALI and MSAG edits to 911 vendor & telecom providers
   - Create new GDH exceptions as needed
   - Refer GIS remediation to County GIS partners

5. MESB Prepares Datasets for 1Spatial Validations
   - Remove features for areas inside 10 counties not served by MESB PSAPs (RCL, ADP, supplemental ESZs)
   - Acquire internally maintained 1Spatial exception feature classes for inclusion in upload
   - Change projection to WGS84

6. MESB Uploads Datasets to 1Spatial
   - For State validations
   - 13 uploads for 13 validations;
   - Time restricted submissions, one per evening

7. MESB conducts error analysis
   - Investigate & vet any remaining 1Spatial errors not in exception feature classes
   - Refer remediation to appropriate party as needed
   - Multiple iterations as needed

8. MESB Prepares Datasets for Enterprise DB Upload
   - Pad ESNs to 5 digits on RCL, ADP, ESZs

9. MESB Uploads Datasets to State Enterprise Database
   - Datasets uploaded individually per supplier boundary, ESZs, RCL, ADP
   - Data stored in ECN format
   - Uses 1Spatial change detection not full dataset replication

State processes to submit to NGCS and to create statewide GAC datasets
Goal:

**Fully document** the detailed process and life cycle of the road, address points, and other data.

Our **director level leadership** understands the nature of the work and resources needed to maintain this for internal agency use and external partners.

**Document = resource for internal staff**
Understand how each agencies individual work connects with each other.
7) Lightning Round