Champaign County
City of Champaign
City of Urbana
University of Illinois
Village of Rantoul
Village of Mahomet
Village of Savoy
Village of St Joseph

2023 Annual Technical Representatives Meeting

Discussion Items & Project Updates

Technical Representatives Meeting Summary

Meeting Discussion Items & Project Updates

ENTITY ATTENDANCE:

City of Champaign, City of Urbana, Village of Savoy, Village of Rantoul

SUMMARY:

The Annual Technical Representatives meeting was held at 10:00am on Tuesday, August 22nd in the Shields-Carter meeting room at the Brookens Administrative Center. A summary of the discussion items and project updates are provided below.

1. 2024 / 2025 CCGISC Initiatives

A list of the completed 2023 tasks and 2024 / 2025 initiatives are found in the following table.

Completed 2023 Tasks	Comments
CCGISC Data Policy Review	- Internal review of CCGISC Data Policy and recommend any necessary updates/changes to Policy Committee (last reviewed in 2017)
Geolocator Upgrade ArcGIS Pro	- Upgrade Geolocators to ArcGIS Pro
Upgrade Geodatabases	- Version 10.9.1.2.9
VM backups (off-site)	- County IT implemented VEEM, CCGISC VM back-up are now pushed off-site
2024 / 2025 Initatives	**Comments**
Finalize Metadata for CCGISV**	- Automate creation of metadata for all tables, views and layers
Website**	- Overhaul CCGISC Website; New logo, etc.
Address Website	- Correct issues with identify tool - Possible overhaul to Javascript API 4.x; currently does not render correctly in all browsers
Address Schema Changes	- Remove Address Number Suffix from Main Address Table i.e. 102A Main Street. Main Address to be 102 Main Street.
Devnet QC Script	- Write a Script that checks for data entry inconsistencies; this impacts the Consortium as entry errors may create problems for views. It is also to limit the distribution of bad data. ***Examples:*** Document numbers, dates, neighborhood codes,etc.
Genealogy**	- Complete Genealogy review/corrections
Street Centerline Split Ranges & Road Jurisdication Layers	- Continued discussion and possible implementation of split range streets and various roadway jurisdiction layers
ROW Document Search (1980 and prior) & Mapping	- Locate ROW documents (1980 and prior) and add to TaxParcelROW layer
ArcGIS Enterprise Upgrade	- Late 2024 or sometime in 2025, dependent on needs

**** 2023 initatives that were not complete due to reallocation of time for unanticipated issues/projects**

2. Road Jurisdictions

CCGISC did not move forward with the development of road jurisdiction layers last year. Jurisdictions can differ based on a particular maintenance item, i.e., lights, sewers, signs, trees, pavement, etc. It was determined CCGISC staff should simply focus on roadway ownership and maintenance. With this additional direction, CCGISC plans to move forward with this task in 2024.

ACTION ITEMS:

- CCGISC to request roadway maintenance grids from the University of Illinois. They will also gather other pertinent source data.
- CCGISC to create the ownership and roadway maintenance jurisdiction routes/layers from source data.
- Members to actively review layers, investigate any conflicts, and work with neighboring jurisdiction(s) to resolve disputes.

3. Street Centerlines – Split Ranges

As discussed at the 2022 Technical Representatives meeting, CCGISC maintains a street centerline layer that splits roads the 100 block. This approach geocodes addresses to a more accurate location. This is particularly important for METCAD because it reduces the number of addresses that are geocoded to an incorrect response zone.

Maintaining both the standard street centerline layer where street centerlines are split at intersections and a 100-block split range layer is time-consuming and cumbersome. CCGISC staff would like to understand what, if any, impacts there would be for the member agencies if CCGISC simply maintained the 100-block split street centerline layer.

ACTION ITEMS:

- CCGISC to make the 100-block split street centerline layer available in the CCGISV Enterprise geodatabase. *(**complete:** located in the Transportation feature dataset – CCGOSV.CCGIS.StreetCL_SplitRange)*
- Member agencies to use the following app to review/compare the geocoding results of the split versus non-split street segments.
  Street Centerline Review App
- Members to hold internal discussions to determine what, if any, impacts splitting these segments may have on their organization.
- CCGISC to set up a meeting to discuss this topic.

4. UIUC Base Station

As part of an interagency agreement, the University (UIUC) maintains a GPS CORS base station *(site id ILUC)* located on the roof of the Florida Avenue Residential Hall (FAR) at 1001 S College Ct in Urbana. A meeting was held with the participating agencies on Tuesday, August 8th to discuss options and gauge interest in entering a new 5-year agreement.

At the meeting, Tom Bryant of Seiler Instruments advised UIUC to update/replace the existing NET R5 receiver and antenna with an Alloy GNSS receiver and a Zephryr 3 geodetic antenna. The Alloy receiver can track 2 additional satellite systems *(4 satellite constellations total)* providing twice the number of available satellites. This should translate into additional coverage and possible accuracy advantages.

The Alloy receiver also enables users to connect via a static IP address via the internet. This type of connection verse a radio signal will extend coverage to a 10 – 20-mile radius without degradation. A 20-mile radius covers most of Champaign County.

Due to the capability of static IP access, a radio is no longer necessary to broadcast base station signal. UIUC plans to continue broadcasting the radio signal but does not intend to replace the existing radio at end of life.

Even with the updated equipment, UIUC estimates a reduced annual fee assuming there continue to be at least four (4) participating agencies. The existing annual fee is $1,156.25, new estimates are between $640 to $720 annually. Costs would decrease with additional participants.

With the extended area of coverage, participation in the base station agreement may be of interest to member agencies outside of the urbanized area.

5. CCGISC Digital Data Policy

The CCGISC Digital Data Policy defines terms, conditions, and procedures related to the distribution and use of CCIGSC digital data. This Policy was updated and approved by the CCGISC Policy Committee at the May 5th meeting. The data categories were changed to represent procedures as practiced. Additional updates were made to account for the category updates.

The CCGISC Digital Data Policy now includes the four (4) data categories:

- Custodial Data *(data CCGISC creates, maintains, and distributes)*
- Repository Data *(data created/maintained by external sources and distributed by CCGISC – i.e., Census data)*
- Production Data *(data used for production, but not directly distributed)*
- Hosted Data *(hosted data per contractual agreement – i.e., Piatt, Douglas)*

In addition, the Policy also includes information regarding FOIA requests and general data restrictions. The highlights are as listed below.

- FOIA requests for ***Custodial*** data should be directed to CCGISC.
- **Custodial** data may be consumed online by member agencies via websites, apps, etc. for the purpose of viewing and printing **ONLY**; the data cannot be made available for download.
- Members may ***NOT*** publish **Custodial** or **Repository** data directly from the CCGISC servers in a manner which would allow the service to be consumed outside of the member organization.

Click here to view the full CCGISC Digital Data Policy.

6. Property / Land Use Code

In 2018 the County moved to a new tax system. As part of this migration the County and Township Assessors adopted a State of Illinois land use code for reporting purposes. These codes are not as detailed as the previously used property codes (APROP). Over the last several years, it became apparent departments within the County and agencies outside of the County relied on the APROP code. As a result, a meeting was held on May 23rd to discuss the implementation of an alternate county-wide coding system to be managed by CCGISC but maintained by the municipalities. Since the meeting, the member agencies agreed on a coding system developed by the City of Champaign. Adoption and maintenance of this coding system will be optional.

ACTION ITEMS:

- CCGISC to put together an initial table and develop back-end procedures seamless to the user.
- CCGISC to schedule a meeting to review the preliminary table and back-end procedures.

7. 2023 Ortho Acquisition

The imagery was acquired with leaf-off conditions in late March and early April. The reviews of the first and second pilot area were favorable. All deliverables should be supplied to CCGISC on or before September 30, 2023. CCGISC staff will require a couple of weeks to create the compressed mosaics and distribute the data. A raster mosaic will be processed and available in CCGISR as soon as possible.

ACTION ITEMS:

- CCGISC to create a raster mosaic of the 2023 ortho-imagery in CCGISR.
- CCGISC to create the compressed mosaics for each of the member agencies.
- CCGISC to distribute all deliverables and compressed mosaics.

8. Metadata

CCGISC staff is working on a metadata script. The script will automate the population of a metadata template and attribute data such as domains, domain values, subtypes, and subtype values, but will not overwrite metadata tags that require manual input. Once complete, the script will be run on CCGISV. Staff will then begin the process of updating tags that require manual input.

The script will eventually be scheduled to run on a regular basis. This will ensure schema changes *(domain additions/deletions, etc.)* are automatically updated.

ACTION ITEMS:

- CCGISC to complete the script in the next month.
- CCGISC to begin work on updating descriptions for the metadata tags that require manual input *(completion anticipated prior to the end of the first quarter in 2024)*.

9. Sanitary Sewer

CCGISC hosts the system wide UCSD sanitary sewer network using data obtained from the various USCD participating agencies (Savoy, UCSD, Champaign, U of I, and Urbana). Complicated import and quality control scripts are used to update and maintain this data in an efficient and effective manner. The scripts require UCSD and the participating agencies to utilize common data schema elements – fields, subtypes, domain, data types, etc. Over the last few years participating agencies altered the previously agreed upon schema elements. As a result, incomplete and/or incorrect information is imported into the sanitary sewer network layers. This directly impacts decisions made by UCSD and others that reference the system layers. It also impacts analysis results from as well as updates to the system-wide sanitary sewer model. To ensure all data is properly imported into the sanitary sewer network, participating agencies need to update their schemas to utilize the shared elements. Please note, agencies can add additional fields and domains - issues occur when the common data elements are altered.

ACTION ITEMS:

- CCGISC to supply UCSD participating agencies with a spreadsheet outlining the schema differences.
- CCGISC to publish an updated sanitary sewer schema and post to the CCGISC website.
- Member agencies to correct the necessary schema differences.

10. Other Items

The CCGISC website contains a Document Portal page. The Document Portal provides access to various CCGISC resources and reference documents. The latest additions to the Portal include 1) a list CCGISC online web apps/sites (spreadsheet) and 2) a description of the Sanitary Sewer QC checks (pdf file).