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

CCGISC Quarterly Update

2017 – Quarter 2

Meeting Summary

CCGISC Technical Representatives Meeting - Thursday, June 20, 2017

Entity Attendance:

City of Champaign, City of Urbana, University of Illinois, Village of Mahomet, County

Summary:

Below is a brief summary of the discussion items. For more detail, please reference the meeting summary emailed to the Technical Representatives and CCGISC Policy Committee on Tuesday, June 27, 2017.

1. **FY2018 Work Plan Tasks**

   The CCGISC Technical Representatives reviewed and accepted a proposed list of work plan tasks to be included in the 2018 Work Plan and Report. Please see Appendix A for details.

2. **2017 Ortho-Acquisition Project**

   CCGISC received the **preliminary** imagery delivery from Kucera on Tuesday, June 20, 2017. The imagery does not include final seam editing, color/tone adjustment, or building lean reduction processing. Member agencies were asked to notify the CCGISC Director if they are interested in receiving a copy of the preliminary imagery. CCGISC expects delivery of the pilot area by the end of July. The pilot area will incorporate "spot shot" images captured to reduce/eliminate building lean.

3. **LUCA**

   CCGISC plans to complete the US Census Bureau's Local Update of Census Addresses (LUCA) initiative for all the addresses within Champaign County. Member agencies will have the opportunity to review the results prior to submission to the Census Bureau however; all reviewers must sign the LUCA confidentiality agreement. Due to short project window, the review period may only be a few days.

   The US Census Bureau gives priority to address comments received from a Village/City over those from a County. If LUCA is a task your entity prefers to complete independently, please notify the CCGISC Director and CCGISC shall exclude your addresses from analysis.

4. **Sanitary Sewer**

   The Urbana Champaign Sanitary District (UCSD) along with the communities serviced by UCSD are preparing to purchase modeling software by Innovyze. As a result, it is necessary for CCGISC to distribute a system-wide sanitary sewer network on a more regular basis. CCGISC staff would like to automate this process; however, there are issues/errors at the edges of the disparate datasets.

Issues include, the same feature represented in within multiple datasets with different geography or ownership and non-connected features. To minimize these errors, the City of Champaign and the University have agreed to provide view-only access to their sanitary systems. This will allow the entities to reference current versions of the various systems when making edits. Going forward, entities need to communicate with one another to resolve existing issues and prevent future issues.

In addition, the Technical Representatives briefly discussed the possibility of moving to the sanitary sewer network model that is part of the ESRI Local Government Information Model (LGIM). Innovyze recommended this change and it would provide the needed foundation to take advantage of web-based and other sanitary sewer solutions provided by ESRI.

The Technical Representatives acknowledged the need for increased cooperation. To facilitate this cooperation, CCGISC staff will 1) update and distribute the sanitary sewer contact information for each of the agencies, 2) forward an updated shapefile of the issues/errors, and 3) continue discussions with the various stakeholder regarding movement to the LGIM sanitary sewer data model.

5. **Parcel Fabric**

Migration to the Parcel Fabric was postponed to complete additional data preparation work that was discovered during the on-site Parcel Fabric editing class in Quarter 4 of 2016. Barring any additional issues, CCGISC plans to migrate to the Parcel Fabric in 2018.

6. **Addressing Standards**

A couple of years have passed since the last review of the addressing standards, a meeting will likely be scheduled for the third quarter of 2017 to discuss any needed additions or updates.

Updates

Parcel Fabric

CCGISC staff continues to make progress toward the goal of migrating the parcel base to the Parcel Fabric in 2018. CCGISC completed the task of converting the boundary lines to two-point lines and curves to "true curves". The next step includes, migrating a pilot township into the Parcel Fabric for testing and training purposes. With each step, CCGISC staff reevaluates the feasibility of migrating to the Parcel Fabric in 2018.

Address Database Reconciliation

CCGISC continues to work with County departments to reconcile addressing differences between the respective databases. Ultimately, the goal is to put into place procedures to maintain consistency between the databases.

COUNTY CLERK - VOTER ADDRESSES

The County Clerk's Voter database contains a table of main addresses and a table of voter addresses which includes sub-addresses. To date, comparisons have occurred between CC-RAD and the main address table in the Clerk's database. County Clerk staff is developing comparisons between CC-RAD and voter address table. This comparison will result in reports that identify sub-address differences between the two databases. The entities will be asked to verify and, when necessary, update sub-addresses in CC-RAD.

The County continues to work on a program that will regularly import the provided CC-RAD addresses into the property location table. Work on this project was postponed due to the demands placed on County IT staff for annual budget preparation tasks. The anticipated project completion date is now the end of September.

2017 OrthoPhotography Acquisition

Kucera supplied two pilot areas for review - a rural and urban sample. CCGISC supplied the pilot areas to the Technical Representatives for review on Monday, July 31st. The received comments were favorable. The City of Champaign did notice a few tall building exhibited more lean than expected. Upon investigation, Kucera found they did not incorporated all the nadir images or "spot shots" into the pilot area. Revised tiles were provided to the City of Champaign and the level of building lean was determined to be acceptable.

Dark shadows, particularly in areas with tall buildings, were also noted upon review. To systematically lighten the shadows, Kucera would need to reduce the overall contrast of the imagery. As the tone/contrast of the supplied pilot areas was positively received, Kucera offered to manually lighten any dark shadows identified upon review of the final deliverable.

Details related to the project, including the work progress time-line, are found in the 2017 Ortho-Imagery Acquisition Contract.

LUCA

As previously mentioned, CCGISC plans to complete this initiative for **all** the addresses within Champaign County. A letter explaining LUCA and the role of CCGISC was emailed to the CCGISC Technical Representatives and non-member agency officials. Because the US Census Bureau gives priority to address comments received from a Village/City over those from a county, any entity that prefers to complete the LUCA analysis independently was asked to contact the CCGISC Director. LUCA analysis begins once CCGISC receives the participation materials from the US Census Bureau in February of 2018.

Sanitary Sewer

With the pending acquisition of modeling software by Urbana Champaign Sanitary District (UCSD), it is necessary for CCGISC to distribute a system-wide sanitary sewer network on a more regular basis. For this to occur increased cooperation is required among the entities serviced by UCSD – *see CCGISC Technical Representatives Meeting summary item 4 for more details.* To that end, CCGISC plans to schedule a Sanitary Sewer meeting in the third quarter of 2017 to discuss ways in which to facilitate cooperation.

Parcel Genealogy

CCGISC routinely receives request for parcel genealogy from County departments and CCGISC member agencies. Currently, parcel genealogy can only be accessed using third party software. As a result, the CCGISC member agencies established a work plan task to development a web-based genealogy tool that views and queries parcel genealogy. CCGISC staff and the County Assessment office are working together to develop such a tool. The tool should be available to CCGISC member agencies sometime in the fourth quarter of 2017.

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Drainage Districts

The creation of a drainage district layer is a work plan task established by the CCGISC member agencies. CCGISC staff recently completed mapping the Beaver Lake drainage district as a pilot area. The district was mapped using certified tax rolls obtained from the County Clerk's office. Next, CCGISC staff will develop a script that compares the County's database to the mapped drainage district. The output will be provided to the County Clerk's office for review. Once the project procedures are finalized, CCGISC will map the drainage districts as time allows. The anticipated completion data for this project is the end of 2020.

CCGISC Policy Items

The CCGISC Policy Committee approved the FY2018 Work Plan & Report and the Capital and Technology Improvement Plan at the August 20th meeting. For more information, please reference the plans on the CCGISC website.

Work Plan Status Report

The Work Plan Status Report is found on the following page. As always, updates are provided in **bold**.

FY2017 Work Plan Status Report

Task	Status
2017 Improvement Tasks *(Short-term)*	
Implement Parcel Fabric	
1-A Migrate parcel layers to Parcel Fabric	Began in FY2016; **to complete in FY2018**
Develop Long-term Technology Plan	
2-A Develop Capital Plan and Capital Budget	completed in FY2016
2-B Establish Disaster Recovery Plan	in progress
Create ISO Compliant Metadata	
3-A Update existing metadata to be ISO compliant	in progress; to complete in FY2018
3-B Create ISO compliant metadata for other layers	in progress; to complete in FY2018
Automate Technical Service Contract Invoices	
4-A Create Relational Database	**delayed; waiting to determine when/if County implements new system**
4-B Create web-based interface that includes invoice generation	**delayed; waiting to determine when/if County implements new system**
Implement Long-term Technology Plan	
5-A Implementation of the developed Long-term Technology/Disaster Recovery Plan (Improvement Task 2-B)	to completed in FY2018
Migrate Sales Database to SQL Server	
6-A Migrate the existing Access relational sales database to SQL Server	to complete in FY2018
6-B Create a web-based interface	to complete in FY2018
Investigate and Implement Portions of the Local Government Information	
7-A Investigate and implement portions of the ESRI Local Government Information - specifically the sanitary sewer data model	to completed in FY2019
2017 Work Plan Tasks	
ESRI Linear Referencing for Roads and Highways	
1-A Review Transportation feature dataset	to complete in FY2017
1-B Research and, if feasible, implement ESRI Roads and Highways linear referencing system	to complete in FY2017
1-C Gather impedance and jurisdiction data	to complete in FY2017
Update StreetCenterline 100-block Data on Even Side of Roadway	
2-A Manually update the even 100-block *from* address range field where appropriate	to complete in FY2017
Public ArcGIS Online Web-Applications	
3-A Continue to develop public ArcGIS Online web applications i.e. polling places	to complete in FY2018
Map Drainage Districts and Subdistricts	
4-A Begin pilot project utilizing Circuit Clerk documents	in progress
4-B Map drainage districts - county-wide	to complete in FY2019
Map Drainage District Tiles	
5-A Utilize Circuit Clerk documents to map original location of drainage tiles	to complete in FY2019
Reconcile Drainage Districts and Sub-districts	
6-A Reconcile Drainage Districts and Subdistricts with appropriate county offices	to complete in FY2019
2017 Contract Tasks	
1-A Piatt County	on going - general GIS tasks
1-B Village of Mahomet	on going - general GIS tasks
1-C City of Champaign	on going - general GIS tasks
1-D Urbana Champaign Sanitary District	on going - general GIS tasks

Status updates found in ***bold***   *Revised July 2017*