



**Wisconsin Land Information Council
Minutes 2023-02-22**

Meeting Date: Wednesday, February 22, 2023
Time: 2:00–4:00 p.m.
Location: [WLIA 2023 Annual Conference](#) | Wisconsin Dells, Kalahari Resort, Tamarind Room
Remote ID: [Click here to join the meeting](#) | Meeting ID: 274 125 088 044 | Passcode: sEa4NA
 Or call in (audio only) +1 608-571-2209 | Phone Conference ID: 174 791 186#

WLIC Appointees (Y = present; N = not present; some participated via teleconference)					
Kim Christman	Y	Cori Lamont	N	Colter Sikora	Y
Adam Derringer	Y	September Murphy	N	James Osborne	Y
Kelly Felton	Y	Cody Brommerich	N	Howard Veregin	Y
Sarah Hedtke	N	Scott Hand	Y	Cindy Wisinski	N
Jim Giglierano	Y				

Other Attendees
Peter Herreid, Ann Buschhaus

1. **Welcome and Introduction** (Adam Derringer)
2. **Approval of previous meeting’s minutes** from [2022-10-26](#)
 - Motion to approve by Felton, seconded by Sikora.
 - Minutes approved.
3. **WLIC Business** (Jim Giglierano)
 - a. **Council member appointments**
 - Applications were submitted but still waiting on the Governor’s Office. Those seated remain serving in their capacity until appointments are made.
4. **WLIP Program Update** (Peter Herreid/Jim Giglierano)
 - a. **WLIP grants and program status**
 - Herreid reported the [2023 WLIP grant application](#) went out. DOA has been executing agreements and making payments. This year Strategic Initiative grants are at the \$70,000 level for every county, due to the increase in revenue in the Land Information Fund the last couple of years.
 - The V9 Parcel Project is underway. The call for data was made earlier this year, on December 1st, in response to the request from the Land Information Officers Network (LION).
 - The Governor’s budget has been released. It proposes to continue to fund WLIP grants at the same level, as well as program staff/administration costs.
 - Revenue from Register of Deed recording fees will likely be the limiting factor in the amount of funds DOA can award in 2024. There has been a slow down in recordings, down 50% from where they were two years ago.
 - A smaller amount of recording fee revenue would increase Base Budget grant eligibility for 2024, with more counties eligible for Base Budget grants. This would, in turn, decrease Strategic Initiative grant eligibility. It may drop to the \$10-20,000 level for 2024, if recordings do not pick up.
 - The revenue is not kept by DOA at the state level from year-to-year to even out the amounts awarded from year to year, because the available money can be applied to projects identified in the county land information plans now. The money awarded can be expended over the course of a couple of years, or longer if an extension is requested. It is not a given that the appropriation and appropriation balance will carry forward from biennial budget to biennial budget.

- The [Wisconsin Register of Deeds Association](#) does not have summary level data showing purchasing versus refinancing or other types of documents recorded that fall under the recording fee. Only the total number of documents recorded is tracked. The WLIP receives Register of Deeds Recording Fee Submission forms, a monthly report from each county with the total number of documents recorded. While the volatility in recording numbers has likely varied from county to county, recording data has not been analyzed at the county by county level.

b. Lidar status and hydrography updates

Lidar Updates:

- County GIS programs were the biggest local partner in Wisconsin for lidar; NRCS largest federal contributor
 - Since 2015, estimated total cost of lidar for state >\$15 million
 - Local contribution between \$4-5 million (does not include buy-ups)
- Future lidar funding uncertain, but improvements in technology are driving interest in reflights
 - QL1 projects becoming more routine (8 points per meter versus 2 ppm) - more above ground uses: buildings, trees, powerlines.
 - High priority areas likely to continue to be collected by 3DEP - areas with big changes in land surface; urban areas; flooded areas
 - Links to Federal agency priorities very important (NRCS, FEMA, USFS, etc.)
 - Increasing interest in super high-resolution projects - 30 points per meter
 - Topobathy and bathymetric acquisitions are becoming more common, especially in coastal areas and ports

Statewide Lidar Status in Wisconsin.

- First time coverage of state achieved in 2018
 - Not 100% publicly available
 - No minimum standards
- With FY 22 3DEP project, standardized, publicly available coverage by the fall of 2023
- Total estimated cost ~\$15 million for QL2/QL1 statewide
 - Local contributions between \$4-5 million
- QL1 (8 points per meter) 16 counties
- Data available from UW WisconsinView and USGS <https://www.sco.wisc.edu/data/elevationlidar>
<https://apps.nationalmap.gov/downloader>
- Data can be streamed from WDNR
https://dnrmaps.wi.gov/arcgis_image/rest/services/DW_Elevation

2023 3DEP Lidar Project Status

- USGS 3DEP Goal - complete US CONUS QL2 coverage by 2024 (currently 85% done)
- WLIP helps coordinate yearly proposal to 3DEP with local WI partners, contracting with USGS
- County GIS programs are the biggest local partner in Wisconsin (~\$5M of \$15M total)
- NRCS HQ biggest partner overall
- FY 22 project to be delivered Fall 2023 (yellow)
- FY 23 QL1 proposal awarded (red dots)
- FY 24-25 SEWRPC 30 ppm potential project
- Reflight trend is toward higher resolution of older areas 2015-2017
- QL1 = Infrastructure and Forestry (biomass/CO2)

Comparison of standard lidar w/ higher resolution

- Standard resolution 2-3 points per square meter - QL2
- High resolution QL1 - 8 pts per meter
- Some partners requesting 30 pts per meter (SEWRPC)
- Vertical accuracy 10 cm on flat surfaces normally
- Some partners requesting 5 cm NVA (SEWRPC and WisDOT)

Hydrography

- New USGS program called 3D Hydrography program (3DHP) starting next year in 2023 or 2024
 - Higher resolution, 3D update to the 24k National Hydrography Program using lidar DEMs as base
 - Will be looking for state and local partners, like 3DEP
 - DNR is also working on updates to their 5k hydrography program – may be able to leverage funding with them

Wetlands

- USFWS also looking at infrastructure funding to update National Wetland Inventory (NWI) in coastal areas
- WDNR is working through process to integrate WWI with NWI

Hi-resolution Land Cover

- NOAA CCAP land cover program has funding for *new 1 meter land cover* in coastal counties
 - Impervious, canopy and water layers will be available April 2023 – for free for 41 “coastal” counties only
 - May be able to purchase remainder of state
 - Additional Wetlands, forest and other CCAP cover classes available next *two years*

“Analysis Ready” Data

- Using NOAA IJA/BIL funding, WCMP is developing an integrated hydro/wetland/land cover pilot project in Brown County.
 - Will use new lidar, county spring orthos and NAIP leaf-on imagery and map hydro/wetlands/land cover at same time.
 - Project runs 2023-2025.
 - Intent of NOAA funding is to develop process for identifying areas in need of habitat conservation and/or acquisition
 - Work with Brown Co Planning and Land Services and WDNR to address local and state data needs
 - Investigate how to leverage federal funding initiatives with state and local resources

USGS 3D Hydrography Program

- 3D Hydrography Data - replaces/builds on National Hydrography Dataset (NHD) and NHD+
- Starts with elevation derived hydro (EDH) process using lidar DEMs from 3DEP program
- New USGS program will be a cost sharing partnership like 3DEP
- Coming soon, may start next year
- Time for us to prepare, develop a funding model
- Possible integration with wetlands and land cover mapping

Updating Wisconsin DNR’s 24K Hydro to 5K

Methods:

- Derive stream networks from LIDAR-derived DEM using ACPF (Agricultural Conservation Planning Framework)
- Hydrologic Position Index (HPI) – visual check
- Surface water – starting with breaklines. Image analysis for smaller water features.

High-level Requirements

- Attributes – maintain 24K hydro HYDROID and Waterbody Indicator Code (WBIC)
 - Maintain stream network connectivity (topology)
- Pilot Projects in Manitowoc, Kewaunee and Brown Counties

NOAA C-CAP Land Cover

- NOAA Coastal Change Analysis Program (CCAP) land cover product
 - Office of Coastal Management
- In the past a 30 m satellite based raster product with 5 year updates similar to WISCLAND
- NOAA moving to 1 m land cover
- New 2 yr GLRI funding coastal areas only
- Emphasis on coastal wetlands classes
- Looking for local partners to complete whole state
- About \$800k to complete Wisconsin
- Better characterization of watershed features – runoff, storm sewers, flooding, soil erosion, etc.

5. Senate Bill 2 (Kim Christman)

- Christman provided updates on [Senate Bill 2](#), personal property tax repeal, from the Wisconsin Real Property Listers Association ([WRPLA](#)) President Nick Gamroth.
- Gamroth is working with the Wisconsin Counties Association and trying to communicate with the State Legislature on this issue. Christman read a message by Gamroth with some of the WRPLA concerns. There are some concerns that relate to land information, record keeping at the county level, and potentially revenue loss for municipalities.
- This is an item of interest for the Council and the Wisconsin Land Information Association to continue to follow.

6. Project Updates

a. NG911 update (Zach Hassler)

- Zach Hassler, GIS Specialist from the Office of Emergency Communications at the Department of Military Affairs was not in attendance and unable to provide updates in advance of the meeting.
- On the issue of the competitive NextGen9-1-1 GIS grant program from the Office of Emergency Communications, counties heard back on the grant award decisions in December.

b. Building inventory work group status (Jim Giglierano)

- Discussions with DOR
 - Scott Shields and Keith Gross - questions about address layers that can be linked to their municipal tax roll database
 - New [OTAS Director](#) in March
- Goal is to outline a plan by Summer 2023
- Need use case input from WLIC members
 - Utility, land title, realtors, public safety, broadband
- Need use case input from outside WLIC: SAGIC, DOA DECHR/Clean Energy, WEM, insurance
 - Big need for hazard risk assessment - flooding, coastal erosion, storm damage, etc.
 - Meet with DOR
- Discuss GIS options and mapping standards by May WLIC meeting
 - Inventory existing building footprint data sets (Microsoft, FEMA, OSM, county data in Geodata)
 - Assessor attributes - meet with DOR, municipalities, software vendors
- Develop funding options

c. National Spatial Reference Framework update (Howard Veregin)

- Veregin provided an update on the effort headed by the National Geodetic Survey (NGS) to upgrade the nation's National Spatial Reference System (NSRS). There is a lot that will change as a result.
- A new horizontal reference frame and vertical datum will replace NAD 83 and NAVD 88. They will be replaced with NATRF2022 (the North American Terrestrial Reference Frame of 2022) and other reference frames designed for a maximum level of precision.
- The implications will vary based on industry or application. Everyone will have to deal with new datums, latitude and longitude will shift, and there will be differences in measurements that occur at a different time, or "epoch."
- Another implication would be that every PLSS corner in the state might have to be resurveyed, rather than just a transformation applied.
- Roll-out is set for around mid-2025.
- As of January 1, 2023 the US survey foot is now officially obsolete, according to a rule passed by the National Institute of Standards and Technology. Using survey foot versus the international foot can have implications when dealing with really large coordinates, but for most uses, the two feet are the same. The international foot is now the official foot of the United States, but NGS has laid out caveats for its use, and there are complications in the use of language for the "foot" as well.

d. WLIA and SAGIC update (Colter Sikora)

- Sikora provided general [WLIA](#) updates, where board elections recently occurred, and the Wisconsin State Agency Geospatial Information Committee (SAGIC), a cross-state agency GIS user group. Jim Lacy from the State Cartographer's Office, current SAGIC Chair, is a contact for more information on SAGIC priorities.

e. Broadband update (Colter Sikora)

- Sikora, who works for the Broadband Office at the Wisconsin Public Service Commission, where they are trying to help shepherd in broadband infrastructure across the state.
- In November, the FCC rolled out its new broadband map. States, counties, and providers will have an opportunity to challenge the data that the federal government puts out.
- The Broadband Equity, Access, and Deployment (BEAD) program will bring the state additional funding for broadband improvement. There was hope it would help a project like a building footprint mapping project, but the potential for mapping data to come out of it is uncertain.
- PSCW will be processing and awarding another round for the [State Broadband Expansion Grant](#) program in the next few months.
- A future BEAD-funded grant program may be something to keep an eye on.
- PSCW will be conducting a survey for counties and tribal nations for access, affordability, and adoption scenarios, which will include a mapping component and feedback from stakeholders will be sought.

f. WEET update (Jim Giglierano)

Giglierano provided an update on Wisconsin's Environmental Equity Tool (WEET), which has not yet been released. The federal government has released two new equity tools, one tied to the Justice40 Initiative, so there is a lot of effort behind these models.

- On other matters, Derringer reported that WLIA and a few other organizations, including the Wisconsin Counties Association and Register of Deeds Association, are looking at the issue of revenues, but in a way that is not fully baked.
- It is not WLIA-led, but they are looking at expenditures, how much it takes to retain LIOs in counties, how funding from WLIP is going to that to achieve goals, and what is required statutorily to serve the public.
- There may also be a potential bill coming out looking at wetlands and hydro, out of the Wisconsin Wetlands Association, Wisconsin Towns Association, and maybe one other organization, which may include funding for data creation. The WLIA Legislative Committee has just learned of this in the past few days. There may be other topics coming down the pike that will potentially impact the Council to continue to follow.

7. Next Steps/Action Items

- Next WLIA meeting – WLIA [Spring Regional Meeting](#): May 17-May 19, 2023, EauClaire

8. Adjourn

- Meeting adjourned at 3:43 pm