State Agency GIS Symposium 2024 Agenda

SAGIC
WISCONSIN
State Agency Geospatial Information Committee

Meeting Date:	**Wednesday, October 2, 2024**
Meeting Place:	Hill Farms State Office Building
	Rooms S152/156
	4822 Madison Yards Way
	Madison, WI 53705
Meeting Time:	9:00 a.m. to 4:30 p.m.

MORNING

Time	Topic	Presenter
9:00-9:15 a.m.	**Opening Remarks / Meeting Logistics / What is SAGIC?**	Jim Lacy (SCO)
9:15-9:45 a.m.	**Redistricting in Elections** Every decade, a new census necessitates a redrawing of Wisconsin's voting district lines (well, sometimes twice a decade). In this presentation, I will talk about how this process is managed in the state's voter registration system, how those changes affect voters and how the system is maintained until the next redistricting cycle begins.	Greg Grube (WEC)
9:45-9:55 a.m.	**Individual Tree Detection Using High Resolution LiDAR in the Milwaukee Urban Forest** We developed a workflow using high-resolution LiDAR to identify individual trees and assess structural tree attributes within the urban forest of the City of Milwaukee. Utilizing the lidR package, we determined tree locations, segmented tree crowns, and evaluated their accuracy against a ground-based tree inventory. Furthermore, we modeled structural tree attributes, such as canopy height, canopy cover, and biomass.	Ana Wells (UW-SCO)
9:55-10:05 a.m.	**MONUMENTal PLSS in GIS: Building Wisconsin's Statewide PLSS Database** This presentation will explore the development of Wisconsin's Statewide Public Land Survey System (PLSS) database. We'll delve into the methodologies used and the challenges faced during its creation. Additionally, we'll discuss the future direction of the database.	David Vogel (UW-SCO)
10:05-10:15 a.m.	**An Overview of the GeoData@Wisconsin Geoportal** GeoData@Wisconsin is an online geoportal providing direct download access to thousands of geospatial datasets, scanned maps, and aerial images for Wisconsin. This overview will highlight some of our popular resources and collections and illustrate how to discover and access resources from data providers around the state. We'll also showcase valuable historical data within the geospatial archive at the UW-Madison Robinson Map Library.	Jaime Martindale (UW-RML)
10:15-10:30 a.m.	**Break (Posters/Maps)**	
10:30-11:00 a.m.	**State Agency Lightning Talks**	
	• ArcGIS for Microsoft Power BI *The UWSA Office of Capital Planning and Budget recently developed a Microsoft Power BI data visualization that depicts information related to its 2025-'31 Capital Plan. The application includes ArcGIS for Power BI mapping components.*	Paul Boehnlein (UWSA)
	• Updates from the Board of Commissioners of Public Lands *The Board of Commissioners of Public Lands (BCPL) has a rich history of managing School Trust Funds and School Trust Lands for the state of Wisconsin. While continuing to preserve records from our past, the Agency is also adopting new methods and technologies to better serve Fund beneficiaries going forward into the future. This brief presentation describes some of the work being done at BCPL and provides examples of Geographic Information Systems and mapping that support those activities.*	Chuck Failing (BCPL)
	• Outdoor Recreation Inventory Project Update *The Wisconsin Office of Outdoor Recreation's Outdoor Recreation Inventory launched in 2023. Hear about this tool, the 2024 update, and how you can participate.*	Taylar Foster (WDT-OOR)
	• Mapping Wisconsin's Bedrock Topography *Wisconsin's bedrock is its foundation. The shape of the bedrock surface tells the story of Wisconsin's pre-glacial past and has many different applications. This talk will touch on datasets and methods used to create a 100-meter raster representation of the state's bedrock topography.*	Matt Rehwald (WGNHS)

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11-11:30 a.m.	**Broadband 2024 (Wisconsin's Version)** This year, each state must plan to stretch federal funding to provide everyone with broadband access. Wisconsin has $1 Billion dollars to serve roughly 200,000 unserved and underserved locations and make "Internet for All" a reality. Come see how the Public Service Commission makes and communicates their deployment strategy using established human infrastructure, network analysis, and spatial statistics to help designate feasible project areas to enable equitable and affordable internet access.	Bernard Apeku, Katherine Mumm, Samantha Olivieri,Tom Scholten, Colter Sikora (PSC)
11:30 a.m. - 12 p.m.	**Data Sharing with Sensitive Information** As state employees our work products are public record. When working with sensitive information how do you balance the public right to know vs protecting resources or restricted data? This talk will look at why some archaeological and other data is restricted and how for whom we can allow access.	Felipe Avila (WHS)
12:00-1:30 p.m.	**LUNCH on your own** **(POSTERS/MAPS)**	
	AFTERNOON	
1:30-2:00 p.m.	**Address Geocoding in State Government** In this presentation we will look at some of the geocoding services available for Wisconsin state agencies to use. We will also explore the central state government geocoding systems operated by some states. Finally, a vision for the future of geocoding and address validation for Wisconsin state government will be offered for our collective consideration.	Andy Swartz (DHS)
2:00-2:15 p.m.	**Mapping WisDOT vegetation assets and maintenance actions** WisDOT Bureau of Highway Maintenance (BHM) worked to digitize relevant paper data and compile the Roadside Mowing App. The Roadside Mowing App is tool designed to help guide county mowing operators and inform the public what the anticipated time, location, and types of mowing operations are. The map also contains areas of vegetation identified as high value and environmentally sensitive areas. The map uses data from DNR Open Data as well as Fish and Wildlife Service data. Christa, state transportation landscape architect, will demo the map and discuss implementation, challenges and next steps for the app.	Christa Schaefer (WisDOT)
2:15-2:25 p.m.	**Rebuilding the State Highway Map** For over 30 years, the State Highway Map was created using CAD software. For the upcoming 2025 edition, the map has been completely rebuilt using ArcGIS Pro and Adobe software. This presentation will give a brief overview of the project, progress updates, and future plans for the State Highway Map. A display of the new map will be available for feedback.	Katie Ginther (WisDOT)
2:25-2:35 p.m.	**Public Imagery Services**	Tony Van Der Wielen (WisDOT)
2:35-2:45 p.m.	**Technical Projects Overview and GIS Upgrades** The Wisconsin Department of Transportation (WisDOT) GIS Unit is leading several projects including a department wide ArcMap retirement and a move to ArcGIS Enterprise 11.3. We will discuss these projects along with other enhancements to the expanding GIS at WisDOT.	Bill Shockley (WisDOT)
2:45-3:00 p.m.	**Break (Posters/Maps)**	
3:00-3:30 p.m.	**DNR's Web Mapping Modernization Journey** Web Mapping Modernization has been a large-scale, 3-year DNR project to transition over 50 web mapping applications to supported technology. In the process, the DNR has transitioned from Geocortex to Vertigis Studio Web, Experience Builder and supported versions of the ArcGIS Maps SDK for JavaScript. We will share technical and project management lessons learned for other state agencies to consider for avoiding technical debt.	Larry Cutforth, Jesse Papez, Mike Diss-Torrance (DNR)
3:30-4:00 p.m.	**GIS For NextGen 911 In Wisconsin: Where We Stand** This presentation will focus on the basics of how GIS interacts with the new NextGen 911 systems being deployed across the state, and around the country. We will then discuss where the project stands on the GIS side of the project, what is being done to improve GIS for NG911 workflows, aggregated datasets that will soon be available, and what the future holds for maintaining 911 data across the state.	Zach Hassler (WEM)
4:00-4:30 p.m.	**Breaking at the SAGIC Symposium**	Christine Koeller (WisDOT)

5:00-7:00 p.m.	**Networking – location to be announced at event**	Colter Sikora (PSC)

Parking & WiFi

Parking is available at the Hill Farms Parking Garage for $2.00/hour.
Public WiFi is available in the building.

State Agency Abbreviations	
BCPL	Board of Commissioners of Public Lands
DATCP	Dept of Agriculture, Trade and Consumer Protection
DCF	Dept of Children and Families
DHS	Dept of Health Services
DMA	Dept of Military Affairs (OEC)
DMA-WEM	Dept of Military Affairs (WEM)
DNR	Dept of Natural Resources
DOA	Dept of Administration
DOR	Dept of Revenue
DPI	Dept of Public Instruction
DWD	Dept of Workforce Development
LTSB	Legislative Technology Services Bureau
PSC	Public Service Commission
SCO	State Cartographers Office
UWSA	Universities of Wisconsin
UW-RML	UW Robinson Map Library
WDT-OOR	WI Tourism - Office of Outdoor Recreation
WEC	WI Elections Commission
WGNHS	WI Geological and Natural History Survey
WHS	WI Historical Society
WisDOT	WI Dept of Transportation
WTCS	Wisconsin Technical College System