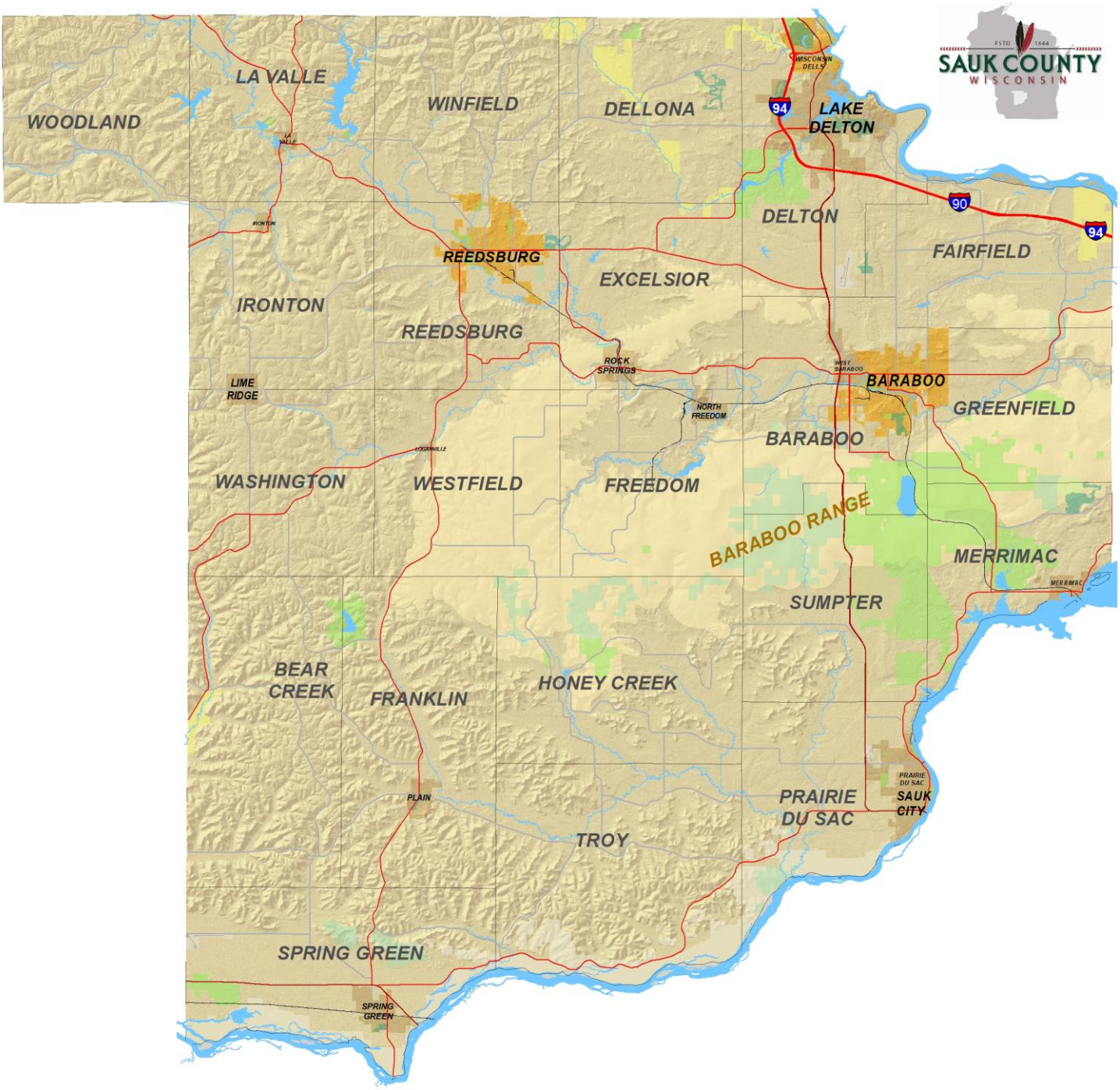
2025-2027

Land Information Plan



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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Sauk County prepared by the land information officer (LIO) and the Sauk County Land Information Council. Under state statute 59.72(3)(b), a "**countywide plan for land records modernization**" is required for participation in the Wisconsin Land Information Program (WLIP). The purpose of this document is twofold: 1) to meet WLIP funding eligibility requirements necessary for receiving grants and retaining fees for land information, and 2) to plan for county land records modernization to improve the efficiency of government and provide improved government services to businesses and county residents.

WLIP Background. The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by Register of Deeds at the county-level. In 2023, Sauk County was awarded $71,000 in WLIP grants and retained a total of $102,048 in local Register of Deeds document recording fees for land information.

This plan lays out how funds from grants and retained fees will be prioritized. However, as county budgets are determined on an annual basis with county board approval, this plan provides estimated figures that are subject to change and are designed to serve planning purposes only.

Land Information in Sauk County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. Our goal is to continue to integrate and coordinate the efforts of all county departments into a centralized system. This system allows Sauk County to provide more effective and efficient programs and services. With this plan, we wish to illustrate the role various departments will play in the land records modernization activities of Sauk County over the next 3 years.

In preparing this plan there was extensive communication with multiple departments who have an interest in the Land Records Modernization Plan update. Each department's input was essential in accurately projecting the county's future plans. The intention is to provide a plan that includes as many departmental goals and objectives as possible.

Mission of the Land Information Office. The Mission of Land Information/GIS is land records modernization, utilizing retained fees from the recording of documents in the Register of Deeds Office for improving the availability of Sauk County's land information.

In the next three years, Sauk County's Land Information/GIS strives to provide greater access and utilization of GIS, substantial improvements in parcel mapping accuracy, and the ability to provide increased response to the needs of county staff and residents. Through further consolidation of all land information resources, we will eliminate duplication of information, creating a more integrated and centralized repository for data sharing. This repository will continue to serve as a portal for data distribution throughout county government.

Land Information Office Projects.

To realize this mission, in the next 3 years, Sauk County hopes to have the resources to focus on these projects:

Sauk County Land Information Projects: 2025-2027

Project#1: Incorporate PLSS into Parcel Fabric.
Project#2: Create Current Land Use layer
Project#3: Create Future Land Use layer
Project#4: Acquire Orthophotography 2023-2025
Project#5: Re-Survey books – data on GIS
Project#6: Sauk County Abstract Title records to ROD indexing system.
Project#7: Floodplain to Permitting System – Land Use Permits.

Project#8: Georeference 1938 Wisconsin Land Economic Inventory Map.
Project#9: Inventory of Parks Assets within the GIS
Project#10: Inventory of Trails within the GIS
Project#11: Manure Pit Inventory. Link to OpenGov
Project#12: Quarry Inventory. Link to OpenGov
Project#13: Landfill Inventory. Link to OpenGov
Project#14: Conditional Use Permit (CUP) Inv. Link to OpenGov
Project#15: Incorporate OpenGov Information into GIS
Project#16: Address Ranges for road centerlines, create actual data through GIS.
Project#17: Cellular Tower Inventory.
Project#18: Link Parcel Data to county assessor data inventories.
Project#19: Highway & ROW plan inventory, incorporating State information. (data @ Co Hwy shop)
Project#20: Link GIS features to LandShark
Project#21: Land Notification Application
Project#22: Creation of US National Grid
Project#23: Create ETL for NG911 Data Standardization
Project#24: Consolidate Future Land Use files from all 39 Munis
Project#25: Create Field Asset Collection & Inspection Apps
Project#26: Drone technology implementation
Project#27: Create 3D Representations
Project#28: Enter Parcel Numbers for Historic ROD Documents
Project#29: Enter Grantors/Grantees 1900-1975
Project#30: Enter Grantors/Grantees 1834-1900
Project#31: Enter Legal Descriptions 1975-2004
Project#32: Identify, Index into Gtr/Gte and Tract all Easements

These projects represent and incorporate various County needs, maximizing retained fees and grant monies to benefit the county's interests. These projects include work related to and for municipalities within the County. With the ability to apply for Strategic Initiative funding, some of these projects will be prioritized over the next 3 years, allowing Sauk County to provide better land records services to its customers.

The remainder of this document details what Sauk County's status is in completion and maintenance of the WLIP map data layers, Foundational Elements, summarizing current and future land information projects.

1 INTRODUCTION

In 1989, a public funding mechanism was created whereby a portion of county Register of Deeds document recording fees collected from real estate transactions would be devoted to land information through a new program called the Wisconsin Land Information Program (WLIP). The purpose of the land information plan is to meet WLIP requirements and aid in county planning for land records modernization.

The WLIP and the Land Information Plan Requirement

In order to participate in the WLIP, counties must meet certain requirements:

- Update the county's land information plan at least every three years
- Meet with the county land information council to review expenditures, policies, and priorities of the land information office at least once per year
- Report on expenditure activities each year
- Submit detailed applications for WLIP grants
- Complete the annual WLIP survey
- Subscribe to DOA's land information listserv
- Coordinate the sharing of parcel/tax roll data with the Department of Administration in a searchable format determined by DOA under s. 59.72(2)(a)

LAND INFORMATION

Any physical, legal, economic or environmental information or characteristics concerning land, water, groundwater, subsurface resources or air in this state.

'Land information' includes information relating to topography, soil, soil erosion, geology, minerals, vegetation, land cover, wildlife, associated natural resources, land ownership, land use, land use controls and restrictions, jurisdictional boundaries, tax assessment, land value, land survey records and references, geodetic control networks, aerial photographs, maps, planimetric data, remote sensing data, historic and prehistoric sites and economic projections.

– Wis. Stats. section 59.72(1)(a)

Any grants received and fees retained for land information through the WLIP must be spent consistent with the county land information plan.

The Statewide Parcel Map Initiative

For Strategic Initiative grant eligibility, counties are required to apply WLIP funding toward achieving certain statewide objectives, specified in the form of "benchmarks." Benchmarks for parcel data—standards or achievement levels on data quality or completeness—were determined through a participatory planning process. Current benchmarks are detailed in the WLIP grant application, as will be future benchmarks.

WLIP Benchmarks

- Benchmark 1 & 2 – Parcel and Zoning Data Submission/Extended Parcel Attribute Set Submission
- Benchmark 3 – Completion of County Parcel Fabric
- Benchmark 4 – Completion and Integration of PLSS

More information on how Sauk County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

County Land Information System History and Context

Since the first WLIP grants in 1990, Sauk County has strived to make land records modernization a priority. The first grant projects were designed to acquire GPS coordinates and Section Corner Remonumentation; laying the foundational parcel groundwork. WLIP grant funding provided the mechanism necessary to get the County parcels initially mapped.

Subsequent grants and retained fees have since provided the means for the County to continually improve upon it's parcel mapping; creating base layers, datasets, and integrating database information. The County's first digital maps were made available online in 2001, with its first version of a GIS mapping website around 2003.

Currently we have an online mapping GIS website that provides the public with essential information. This information is derived from data maintained by the Land Information/GIS, Real Property, Treasurer, Land Resources & Environment, County Surveyor, and Register of Deeds Departments. The implementation of this land information system has benefited Sauk County by reducing duplication of efforts in processing and recording land information, standardizing land information data, correcting inaccurate or problem data.

County mapping has now evolved to include much more detailed information, creating a fully integrated County GIS, incorporating maps and data from numerous departments and sources. This data includes tax parcels, assessments, Orthophotos, contour elevations, zoning, floodplain, building footprints, and much more.

The County has also developed focused applications that allow users to get customized information about a specific topic. These sites can be viewed using a browser, desktop, or a mobile device. Sauk County has embraced these new technologies, leveraging WLIP funding resources, to provide more accurate land information to its consumers and better services to its citizens.

County Land Information Plan Process

Counties must submit their plans to DOA for approval every three years. The 2025-2027 plan is to be completed at the end of 2024.

County Land Information Plan Timeline

- DOA release of finalized instructions by March 31, 2024.
- April–September 2024: Counties work on land info plans.
- Complete draft plans due to DOA by September 30, 2024 (but sooner is advised).
- Final plans with county land info council approval due by December 31st, 2024.

Plan Participants and Contact Information

Another requirement for participation in the WLIP is the county land information council, established by legislation in 2010. The council is tasked with reviewing the priorities, needs, policies, and expenditures of a land information office and advising the county on matters affecting that office.

According to s. 59.72(3m), Wis. Stats., the county land information council is to include:

- Register of Deeds
- Treasurer
- Real Property Lister or designee
- Member of the county board
- Representative of the land information office
- A realtor or member of the Realtors Association employed within the county
- A public safety or emergency communications representative employed within the county
- County surveyor or a registered professional land surveyor employed within the county
- Other members of the board or public that the board designates

The land information council must have a role in the development of the county land information plan, and DOA requires county land information councils to approve final plans.

This plan was prepared by the county LIO, the Sauk County Land Information Council, and others as listed below.

Sauk County Land Information Council and Plan Workgroup				
Name	**Title**	**Affiliation**	**Email**	**Phone**
* **Kelly Felton**	Cartographer/GIS Specialist, Land Information Officer	Sauk County Land Information/GIS	kelly.felton@saukcountywi.gov	608-355-3240
* **Brent Bailey**	Register of Deeds	Sauk County Register of Deeds Office	brent.bailey@saukcountywi.gov	608-333-1234
* **Jessica Machovec**	Treasurer	Sauk County Treasurer	jessica.machovec@saukcountywi.gov	608-355-3275
***Michelle Rathman**	Real Property Lister	Sauk County Land Information/GIS	michelle.rathman@saukcountywi.gov	608-355-3575
***John Deitrich**	County Board Member	Sauk County Board	john.deitrich@saukcountywi.gov	608-415-3829
***Steve Pate**	Coordinator	Sauk County Management Information Systems	steve.pate@saukcountywi.gov	608-355-3555
***Tom Gavin**	Realtor	First Weber Realty	tfgavin@firstweber.com	608-356-7711
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***Patrick Dederich**	County Surveyor	Sauk County Surveyor	patrick.dederich@saukcountywi.gov	608-355-4474

* Land Information Council Members designated by the asterisk symbol

[Note: New Contracted surveyor will start a two year initial contract term starting January 2025]

2 FOUNDATIONAL ELEMENTS

Counties must have a land information plan that addresses development of specific datasets or map layer groupings historically referred to as the WLIP Foundational Elements. Foundational Elements incorporate nationally recognized "Framework Data" elements, the major map data themes that serve as the backbone required to conduct most mapping and geospatial analysis.

FOUNDATIONAL ELEMENTS

PLSS
Parcel Mapping
LiDAR and Other Elevation Data
Orthoimagery
Address Points and Street Centerlines
Land Use
Zoning
Administrative Boundaries
Other Layers

In the past, Foundational Elements were selected by the former Wisconsin Land Information Board under the guiding idea that program success is dependent upon a focus for program activities. Thus, this plan places priority on certain elements, which must be addressed for a county land information plan to be approved. Beyond the county's use for planning purposes, Foundational Element information is of value to state agencies and the WLIP to understand progress in completion and maintenance of these key map data layers.

PLSS

Public Land Survey System Monuments

Layer Status

PLSS Layer Status

	Status/Comments
Number of PLSS corners (section, ¼, meander) **set in original government survey** that can be remonumented in your county	• 2941
Number of PLSS corners capable of being remonumented in your county that **have been remonumented**	• 3055
Number of remonumented PLSS corners with survey grade coordinates (see below for definition) • **SURVEY GRADE** – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision • **SUB-METER** – point precision of 1 meter or better • **APPROXIMATE** – point precision within 5 meters or coordinates derived from public records or other relevant information	• Survey Grade – 3062 • Sub-Meter – 0 • Approximate – 172
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer	• 1920
Number of non-survey grade PLSS corner coordinates integrated into county digital parcel layer	• 172
Tie sheets available online?	Yes - https://www.co.sauk.wi.us/landinformation/tie-sheet-finder
Percentage of remonumented PLSS corners that have **tie sheets available online** (whether or not they have corresponding coordinate values)	• 98% - 3184
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values) **and a corresponding URL path/hyperlink value** in the PLSS geodatabase	• 98% - 3184
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	• 129
Approximate number of PLSS corners believed to be lost or obliterated	• Unknown

Which system(s) for **corner point identification/ numbering** does the county employ (e.g., the Romportl point numbering system known as Wisconsin Corner Point Identification System, the BLM Point ID Standard, or other corner point ID system)?	• County Corner Number created by Sauk County Surveyors Department • Wisconsin Corner Point Identification System [Romportl]
Does the county contain any **non-PLSS areas** (e.g., river frontage long lots, French land claims, private claims, farm lots, French long lots, etc.) or any special situations regarding PLSS data for tribal lands?	• No
Total number of PLSS corners along each bordering county	• 92 – Juneau; 14-Vernon; 82 –Richland; 26 – Columbia (Total 214)
Number of PLSS corners remonumented along each county boundary	• 205
Number of remonumented PLSS corners along each county boundary with survey grade coordinates	• 205

Custodian

- Sauk County Surveyor

Maintenance

- As able, utilization of WLIP retained fee Strategic Initiative grants to acquire section corner coordinates. This has been an ongoing process as part of Sauk County's remonumentation program, in addition to the Sauk County bounty program.

Standards

- Statutory Standards for PLSS Corner Remonumentation
  - s. 59.74, Wis. Stats. Perpetuation of section corners, landmarks.
  - s. 60.84, Wis. Stats. Monuments.
  - ch. A-E 7.08, Wis. Admin. Code, U.S. public land survey monument record.
  - ch. A-E 7.06, Wis. Admin. Code, Measurements.
  - s. 236.15, Wis. Stats. Surveying requirement.
- North American Terrestrial Reference Frame of 2022 (NATRF2022)
- SURVEY GRADE standard from Wisconsin County Surveyor's Association:
  - **SURVEY GRADE** – coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision
  - **SUB-METER** – point precision of 1 meter or better
    APPROXIMATE – point precision within 5 meters or coordinates derived from public records or other relevant information

Other Geodetic Control and Control Networks

- **., HARN, Height Mod., etc.**

Layer Status

- HARN network set in Sauk County December 1999
- All stations tied to the Wisconsin High Precision Geodetic Network (WHPGN) based upon North American Datum of 1983(1997)-NAD 83(1997) adjustment

Custodian

- Sauk County Land Information/GIS

Maintenance

- No planned maintenance of this network at this time.

Standards

- Sauk County HARN: 1999 Survey, Sauk County Coordinates U.S. Foot NAD 83 97 Adjustment
- Sauk County's HARN network consists of 15 Secondary [Order B, Class 2 (2-PPM)] and 10 Primary [Order B, Class 1(1-PPM)] stations.

Parcel Mapping

Parcel Geometries

Layer Status

- **Progress toward completion/maintenance phase:** County-wide parcel layer is complete and current. In Sauk County, 100% of the county's parcels are available in a commonly used digital GIS format.
- **Projection and coordinate system:** NAD 1983 HARN WISCRS Sauk County US Feet
- **Integration of tax data with parcel polygons:**
  - The county does have a parcel polygon model that directly integrates tax/assessment data as parcel attributes.

- **Online Parcel Viewer Software/App and Vendor name:**
  - Esri ArcGIS Online:
    - Esri ArcGIS Online Map Viewer – ArcGIS Online - In-house
    - Esri Web AppBuilder for ArcGIS – ArcGIS Online- In-house
    - Esri Web AppBuilder Developer Edition – Self-housed – In-house

- **Unique URL path for each parcel record:**
  - YES.
    - Parcel attribute information viewable - detailed assessment data, tax bill for parcel, recorded document information, link to zoning information
    - URL is stable
    - Unique URL values can be exported

Custodian

- Sauk County Treasurer, Real Property, Land Information/GIS

Maintenance

- **Update Frequency/Cycle**. Parcel polygons updated as needed.
- Data stored on secure server, along with backup protocol.
- Sauk County GIS Tax Parcel iSite is updated as parcels are revised.

Standards

- **Data Dictionary**:
- Available in human-readable format. Field definitions exist for each attribute
- https://data-saukgis.opendata.arcgis.com/datasets/saukgis::tax-parcel-labels/about
- S.59.72(2)(a), Wis. Stats. Presence of all nine "Act 20" attributes
- FGDC's Cadastral Standards for the National Spatial Data Infrastructure https://www.nationalcad.org/CadStandards/CadStand.html
- Local Government standards compliance
- WLIA's Digital Parcel Mapping Standard https://www.wlia.org/wp-content/uploads/2013/12/Parcel-Mapping.pdf

Parcels Without Land Value

Layer Status

- **Number of parcels without a land value recorded to-date:** 33, as of 09/01/2024
- **County geolocates/maps parcels for improvements only and without a land value by:**
  - creating new polygons and parcel stacking.

Assessment/Tax Roll Data

Layer Status

- **Progress toward completion/maintenance phase:** NA
- **Tax Roll Software/App and Vendor name:**
  - Ascent Land Records Suite – Transcendent Technologies

- **Municipal Notes:** NA

Custodian

- Sauk County Treasurer, Real Property

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county will maintain the system on a regular basis, updates and modifications made as needed to maintain a seamless link to the County's GIS data, reflecting the currency of the assessment/tax roll data
- **Searchable Format Workflow:**
  - The county maintains parcel/tax roll data in the Searchable Format or close enough to the Searchable Format that **little to no human labor is required** for the annual submission of parcel/tax roll data to DOA.

Standards

- Wisconsin Department of Revenue Property Assessment Manual and attendant DOR standards
- DOR XML format standard requested by DOR for assessment/tax roll data
- s. 59.72(2)(a), Wis. Stats. Presence of all nine "Act 20" attributes
- s. 59.72(2)(a), Wis. Stats. Crosswalk of attributes

Non-Assessment/Tax Information Tied to Parcels

e.g ., Permits, Easements, Non-Metallic Mining, Brownfields, Restrictive Covenants

Layer Status

- Sauk County Non-Assessment/Tax Information is maintained in an Enterprise geodatabase, using Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol
- Updated as needed.
- Intend to improve this data in future. Several projects within this plan tied to this type of data acquisition.

Standards

- **s. 59.72(2)(a), Wis. Stats.**

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:** Digitized Grantor/Grantee index from 1986 to present. Funds in place to digitize from 1986 back to 1850(First). Presently, 1850-1986 indexes are in books. Grantor/Grantee index from 1986 to present also available online.
- **Tract Index:** Tract index based on PLSS from 2004 to present (All document types). Would like to incorporate parcel numbers back 20 years, if possible (**Second**). Also plan to tract backwards as far as possible (**Third**). Tract index 2004 to present also available online**.**
- **Imaging:** All documents 1976 to present available digitally. All conveyance documents (including deeds, easements, judgments, and land contracts) 1895 to present available digitally. Document images from 1986-present also available online
- **ROD Software/App and Vendor Name:**
  - **Landshark** – from contractor/vendor Trimin

Custodian

- County Register of Deeds

Maintenance

- Management Information Systems (IT) back-up (off site). Software vendors provide upgrades and fixes. Scanning is verified by ROD audit daily. Index entry audited by system users, including, but not limited to ROD staff, property lister, GIS staff, and innumerable title companies and attorneys.

Standards

- s. 59.43, Wis. Stats. Register of Deeds: duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.

LiDAR and Other Elevation Data

LiDAR

Layer Status

- **Most recent acquisition year:** 2020
- **Accuracy:** All data in NAD_1983_2011_WISCRS_Sauk_County_Feet(horizontal); NAVD88-Geoid12B(feet) (vertical). Dataset developed to generate contours meeting National Map Accuracy Standards for scale 1:600
- **Post spacing:** LiDAR data acquired at nominal point spacing (NPS) of 0.907 meters and an aggregate nominal point density (ANPD) of 2.0
- **Contractor's standard, etc.:** **
- **Next planned acquisition year:** 2030
- **QL1/QL2 acquisition plans:** 2020 project meets QL1/QL2 standards, with recommended enhancements to base QL2 requirements.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol
- Updates 5–10-year increments as needed

Standards

- Project specifications based on Sauk County requirements and the U.S. Geological Survey National Geospatial Program LiDAR Base Specifications, Version 2.1.
- The data was developed based on a horizontal projection/datum of NAD83(2011)/WISCRS Sauk (ft US), vertical datum of NAVD88-Geoid12B(Feet)
- LiDAR data acquired using a Riegl LMS-Q1560 sensor with serial number SN1264 from 3 total lifts. (April 2020)
- Dataset developed to generate contours meeting National Map Accuracy Standards for scale 1:600
- One-foot contours meeting National Map Accuracy Standards were generated from the TIN.

LiDAR Derivatives

e.g ., Bare-Earth Digital Terrain Model (DTM), Bare-Earth Elevation Contours, Bare-Earth Digital Elevation Model (DEM), Digital Surface Model (DSM), Hydro-Enforced DEMs, etc.

Layer Status

- Acquired as part of the USGS 3DEPProgram QL1/QL2 acquisition plans, April 2020 as part of the 2020 WROC projects, the LiDAR portion being a coordinated effort with the USGS 3DEP program.
- The Bare Earth DTM & DEM were developed from LAS points and breaklines collected from a LiDAR flight flown in the Spring of 2020. The DTM is used to develop a TIN (Triangulated Irregular Network). The DEM is a raster data set in ESRI GRID format with an X, Y, Z value located at the center of each 10 ft. by 10 ft. cell.
- The Breakline vectors were developed from the LiDAR points to define hard and soft breaklines, mostly hydrography, in the terrain surface, as part of the Sauk County 2020 LiDAR Project. The 2020 breaklines dataset contains the hydrographic breaklines necessary for terrain surface development. This dataset establishes the deviation parameters for the development of derivative terrain data. File formats include:

ESRI shapefile and AutoCAD DWG format. Coupled with the classified lidar point cloud this data set is the 2020 digital terrain model.
- The Bare Earth LAS was developed from a LiDAR flight flown in the Spring of 2020, as part of the 2020 WROC flights. The 2020 Bare Earth was delivered in LAS and TXT files, which contain a subset of the total LiDAR point cloud. This dataset constitutes the bare terrain surface data set with all other classifications omitted. File formats include: ESRI TXT and LAS format. Coupled with the breakline features this data set is the 2020 Sauk County digital terrain model.
- The 2020 one-foot contours were developed as a derivative product for use in general surface modeling and depiction. File formats include ESRI Shapefile and AutoCAD DWG format.

Custodian
- Sauk County Land Information/GIS

Maintenance
- Data stored on secure server, along with backup protocol.
- Updates 5–10-year increments as needed.

Standards
- The DEM was generated from a DTM meeting ASPRS class II Standards. Two-foot contours meeting National Map Accuracy Standards were generated from the TIN.

Orthoimagery

Orthoimagery

Layer Status
- **Most recent acquisition year:** 2020
- **Resolution:** 6" Countywide True Color Orthophotography resolution, 4-band RBG-NIR; map scale 1" = 100'
- **Contractor's standard:** ASPRS Class II accuracy standards
- **Next planned acquisition year:** 2023-2025

Custodian
- Sauk County Land Information/GIS

Maintenance
- Data stored on secure server, along with backup protocol.
- Sauk County anticipates acquiring orthophotography every 5 years, or every 3 years if money is available.

Standards
- Project established digital, 4-band orthoimagery.
- Used a Leica Geosystems DMCIII sensor mounted in a fixed-wing aircraft
- Aerial imagery collected supports 0.5-foot ground sample distance (GSD) meets ASPRS Class II 1" =100'
- 6-inch orthos produced to meet or exceed horizontal accuracy of 1.4 feet RMSE to ASPRS Positional Accuracy Standards for Digital Geospatial Data
- Orthos were rectified to a DEM created from newly acquired LiDAR (2020).
- Orthos delivered in PLSS section GeoTiff and MrSID tiles, county-wide MrSID mosaic.

Historic Orthoimagery

Layer Status
- Archival of past Orthophotography: 2001, 2005, 2010, 2015

Custodian
- Sauk County Land Information/GIS

Maintenance
- No maintenance of this data, archived data incorporated into GIS datasets and provides historical information.

Standards

- Kept to the standards set forth at the time each flight and acquisition took place

Other Types of Imagery

e.g ., Oblique Imagery, Satellite Imagery, Infra-red, etc.

Layer Status

- 4-band RBG-NIR Imagery, acquired Spring 2020 Orthophotography flight

Custodian

- Sauk County Land Information/GIS

Maintenance

- No specific plans at this time. Should need for updated data occur, will plan and budget accordingly

Standards

- ASPRS Class II

Address Points and Street Centerlines

Address Point Data

Layer Status

- County Address data is complete and current.
- All of Sauk County's Address Data is maintained in ESRI enterprise geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- The County's address model directly integrates tax/assessment data as parcel attributes
- Address Data is maintained using Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Maintaining updates on a weekly basis as able pending workload and staffing. Improved to more daily basis.
- Data stored on secure server, along with backup protocol.
- Updated as needed

Standards

- FGDC Postal Address Data Standard
- NG9-1-1 compliant–PSAP routing

Building Footprints

Layer Status

- Acquired along with Orthophotography, Spring 2015.

Custodian

- Sauk County Land Information/GIS

Maintenance

- This data layer is updated weekly. (Maintenance mode)
- Site/Structure Address Point

Standards

-

Other Types of Address Information

e.g ., Address Ranges

Layer Status

- County Address data is complete and current.
- All of Sauk County's Address Data is maintained in ESRI enterprise geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Address Data is maintained using Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- FGDC Postal Address Data Standard
- NG9-1-1 compliant –PSAP routing

Street Centerlines

Layer Status

- County Street Centerline data is complete and current.
- All of Sauk County's Street Centerline Data is maintained in ESRI enterprise geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Street Centerline Data is maintained using Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- FGDC Postal Address Data Standard
- NG9-1-1 compliant–PSAP routing
- Wisconsin GIS NG9-1-1 Data Standard (Road Centerline)

Rights of Way

Layer Status

- County Rights of Way data is complete and current.
- All Sauk County's Rights of Way Data is maintained in ESRI enterprise geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Rights of Way Data is maintained using the Esri Parcel Fabric Data Model, and Esri's Local Government Information Model

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Trails

e.g ., Recreational Trails, Snowmobile Trails

Layer Status

- County Trails data is complete and current for ATV, Bike, Mountain Bike, Snowmobile, Hiking,

Snowshoeing, Horseback Riding and Ice Age Trails information.
- All Sauk County's Trails Data is maintained in ESRI Enterprise geodatabase format
- NAD 1983 HARN WISCRS Sauk County US Feet
- Trails Data is maintained using Esri's Local Government Information Model

Custodian
- Sauk County Land Information/GIS

Maintenance
- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards
- s. 59.72(2)(a), Wis. Stats.

Land Use

Current Land Use

Layer Status
- No current Land Use Data.
- Sauk County's goal is to create and maintain this data in the near future.

Custodian
-

Maintenance
- Does not exist

Standards
- s. 66.1001, Wis. Stats. Comprehensive planning.

Future Land Use

Layer Status
- No current Future Land Use Data
- Sauk County's goal is to create and maintain this data in the near future.

Custodian
-

Maintenance
- Current – Municipalities
- Future - County

Standards
- s. 66.1001, Wis. Stats. Comprehensive planning.
- Future land use maps are typically created through a community's comprehensive planning process. Future land use mapping for a county may be a patchwork of maps from comprehensive plans adopted by municipalities and the county.

Zoning

County General Zoning

Layer Status
- The County does maintain a GIS representation of county general zoning boundaries.
- County Zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Shoreland Zoning

Layer Status

- The County does maintain a GIS representation of county shoreland zoning boundaries.
- County Shoreland Zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Farmland Preservation Zoning

Layer Status

- The County does maintain a GIS representation of county farmland preservation zoning boundaries
- **Year of certification:** 2014
- County Farmland Preservation Zoning data is complete and current.
- Sauk County Farmland Preservation Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet
- Certification is done approximately every 10 years.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- GIS dataset is updated when parcels are rezoned.
- Updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Floodplain Zoning

Layer Status

- The County does maintain a GIS representation of floodplain zoning boundaries.
- The county's floodplain zoning GIS data is the same as/identical to the FEMA map.
- **Letters of Maps Change** – FEMA Flood Insurance Rate Maps (FIRMs) can be changed through "Letters of Maps Change," which is comprised of a few things: Letters of Map Amendment, Letters of Map Revision, and Letters of Map Revision Based on Fill. These are documents issued by FEMA that officially remove a property and/or structure from the floodplain. They are collectively called Letters of Map

Change.
  - These used to be sent to County Zoning office (now Land Resources & Environment (LRE)) but have not received these in many years. Last study to FIRM maps was done October 2, 2015.
- County Floodplain zoning data is complete and current.
- Sauk County Zoning Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian
- Sauk County Land Information/GIS

Maintenance
- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards
- s. 59.72(2)(a), Wis. Stats.

Airport Protection

Layer Status
- The County does maintain a GIS representation of airport protection zoning boundaries.
- **Airport protection zoning map depicts:**
  - Height limitation restrictions
  - General zoning overlay for airport protection

Custodian
- Sauk County Land Information/GIS

Maintenance
- Data stored on secure server, along with backup protocol.
- Updated as needed.

Standards
- s. 59.72(2)(a), Wis. Stats.

Municipal Zoning Information Maintained by the County

e.g ., Town, City and Village, Shoreland, Floodplain, Airport Protection, Extra-Territorial, Temporary Zoning for Annexed Territory, and/or Zoning Pursuant to a Cooperative Plan

Layer Status

f The County does maintain the Airport Protections layer for the City of Baraboo. The county maintains the General Zoning for the City of Baraboo, City of Reedsburg, Town of Fairfield, Town of Merrimac and the Town of Delton.

Custodian
- Contact Municipality

Maintenance
- Updated as needed

Standards
- https://docs.legis.wisconsin.gov/statutes/statutes/59/VII/72

Administrative Boundaries

Civil Division Boundaries

e.g ., Towns, City, Villages, etc.

Layer Status

- Sauk County Administrative Boundaries are changed by local municipalities per State rules. Updates are done annually to incorporate municipal boundary changes and annexations. Information is sent to US Census bi-annually regarding these updates.
- Sauk County Administrative Boundaries data is complete and current.
- Sauk County Administrative Boundaries Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as needed for municipal boundaries and annexations.

Standards

- s. 59.72(2)(a), Wis. Stats.

School Districts

Layer Status

- **Progress toward completion/maintenance phase:** Maintenance
- **Relation to parcels:** School Districts are tied to parcels by District code
  - **Attributes linked to parcels:** School District code & name
- Sauk County School Districts are complete and current.
- Sauk County School Districts Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- School District data is updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Election Boundaries

e.g ., Voting Districts, Precincts, Wards, Polling Places, etc.

Layer Status

- Sauk County Election Boundaries are updated per State rules. Updated based upon US Census taken every 10 years.
- Sauk County Election Boundaries data is complete and current.
- Sauk County Election Boundaries Data is maintained in an Enterprise geodatabase, using Esri's LGIM
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Data stored on secure server, along with backup protocol.
- Updated as necessary.

Standards

- s. 59.72(2)(a), Wis. Stats.

Utility Districts

e.g ., Water, Sanitary, Electric, etc.

Layer Status

- Developed mostly as Easements related to parcel data in Parcel Fabric framework. Maintained in an Enterprise geodatabase, using Esri's LGIM
- LRS Maintains a Sanitary District

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary.

Standards

- s. 59.72(2)(a), Wis. Stats.

Emergency Service Boundary – Law/Fire/EMS

Layer Status

- **Law Enforcement:** data complete and current.
- **Ambulance:** data complete and current.
- **Fire**: data complete and current.
- **ESN**: data complete and current.
- Facility Site Points have all the Healthcare Facilities.
- All data is maintained in ESRI Enterprise geodatabase
- NAD1985 HARN WISCRS Sauk County US Feet.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.
- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)

Public Safety Answering Points (PSAP) Boundary

Layer Status

- **PSAP Boundary:** data complete and current.
- All data is maintained in ESRI Enterprise geodatabase
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.
- NENA Standard for NG9-1-1 GIS Data Model- NG9-1-1 Compliant
- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)

Provisioning Boundary

Layer Status

- Provisioning Boundary is complete and follows the NENA NG911 data model
- All data is maintained in ESRI Enterprise geodatabase

- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.
- NENA Standard for NG9-1-1 GIS Data Model- NG9-1-1 Compliant
- Wisconsin GIS NG9-1-1 Data Standard (Emergency Service Boundary)

Other Public Safety

e.g., Unincorporated Community Boundary

Layer Status

- Unincorporated Community Boundary is complete and follows the NENA NG911 data model
- All data is maintained in ESRI Enterprise geodatabase
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.
- NENA Standard for NG9-1-1 GIS Data Model- NG9-1-1 Compliant

Other Public Safety

eg., Neighborhood Community Boundary

Layer Status

- Neighborhood Community Boundary is complete and follows the NENA NG911 data model
- All data is maintained in ESRI Enterprise geodatabase
- NAD 1983 HARN WISCRS Sauk County US Feet

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.
- NENA Standard for NG9-1-1 GIS Data Model- NG9-1-1 Compliant

Lake Districts

Layer Status

- This is maintained in the Tax Parcel layer; attributes are pulled in from LRS.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as necessary

Standards

- s. 59.72(2)(a), Wis. Stats.

Native American/Tribal Lands

Layer Status

- This is captured under the Facility Sites.
- Not a specific data layer in GIS.

Custodian

-

Maintenance

-

Standards

- s. 59.72(2)(a), Wis. Stats.

Other Administrative Districts

e.g ., County Forest Land, Parks/Open Space, etc.

Layer Status

- County, Municipal, Town and State Parks Maintained in an Enterprise geodatabase, using Esri's LGIM.
- Project within this plan to expand and create more current information

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as needed.

Standards

- s. 59.72(2)(a), Wis. Stats.

Other Layers

Hydrography Maintained by County or Value-Added

e.g ., Hydrography maintained separately from DNR or value-added, such as adjusted to orthos; Elevation-Derived Hydrography

Layer Status

- Updated with the Spring 2015 Orthoimagery acquisition. Maintained in an Enterprise geodatabase, using Esri's LGIM.

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated as needed per latest Orthoimagery. Plan to update accordingly per the 2020 orthoimagery.

Standards

- s. 59.72(2)(a), Wis. Stats.
- USGS Elevation-Derived Hydrography Specifications

Cell Phone Towers

Layer Status

- Info Technology Facility – Need to capture older ones. Summer 2021 intern will be capturing these.
- Cell Towers noted as easements within GIS.
- Have a layer developed related to Communication Towers (radio stations), within Points of Interest on Sauk County Zoning App

- Planned layer for future

Custodian

- Sauk County Land Information/GIS (future)

Maintenance

- As needed

Standards

- s. 59.72(2)(a), Wis. Stats.

Bridges and Culverts

Layer Status

- Culverts were captured county-wide in 2017 as a line feature to work with modeling
- Hwy Department maintains county culverts as a line.
- Working to improve culvert information.
- Hwy Department plans to create a county bridge inventory

Custodian

- Sauk County Land Information/GIS

Maintenance

- •As needed. Hope to obtain more accurate data related to both bridges and culverts in the future

Standards

- s. 59.72(2)(a), Wis. Stats.

Other

e.g ., Pipelines, Railroads, Non-Metallic Mining, Sinkholes, Manure Storage Facilities, etc.

Layer Status

- •Railroads maintained in an Enterprise geodatabase, using Esri's LGIM

Custodian

- Sauk County Land Information/GIS

Maintenance

- Updated in conjunction with parcel, zoning, and related land information layers, as needed.
- Hope to capture more of this "other" data in the future. Listed as some projects in this plan.

Standards

- s. 59.72(2)(a), Wis. Stats.

3 LAND INFORMATION SYSTEM

The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

One integration requirement is listed under s. 16.967(7)(a)(1), Wis. Stats., which states that counties may apply for grants for:

- The design, development, and implementation of a land information system that contains and integrates, at a minimum, property, and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available; wetlands identified by the department of natural

resources; a modern geodetic reference system; current zoning restrictions; and restrictive covenants.

Maintenance

- Updated in conjunction with parcel, zoning, and related land information layers, as needed.
- Hope to capture more of this "other" data in the future. Listed as some projects with this plan.

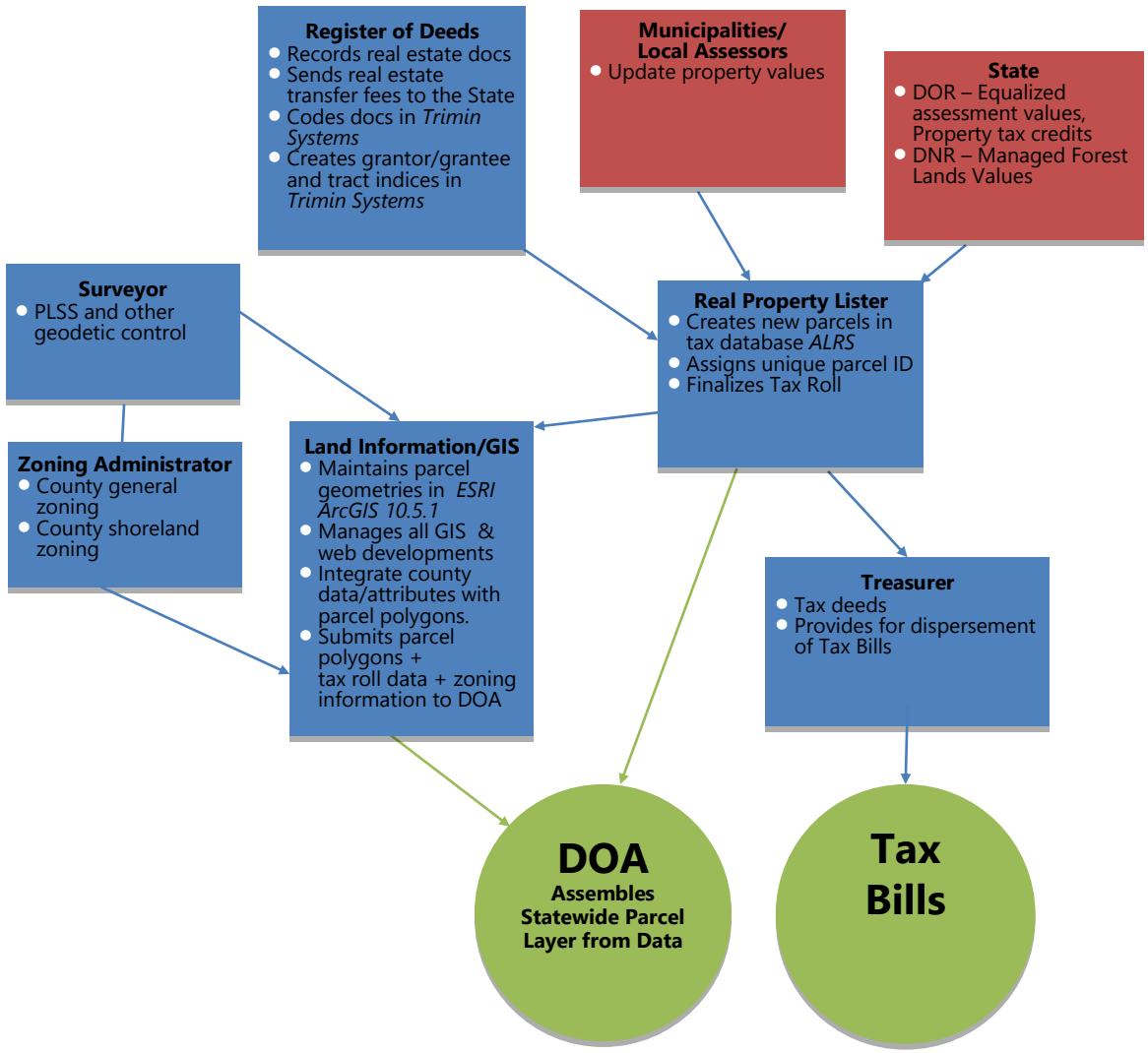
Standards

- s. 59.72(2)(a), Wis. Stats.

This chapter describes the design of the Sauk County Land Information System, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

Current Land Information System

County Parcel Data Workflow Diagram



Technology Architecture and Database Design

This section refers to the hardware, software, and systems that the county uses to develop and operate computer systems and communication networks for the transmission of land information data.

Hardware

- The GIS infrastructure uses utilizes 2 virtual servers, one for ArcGIS Server and the other for SQL Server.
- Register of Deeds utilizes Trimin LandLink/LandShark/Light House suite for hardware, which incurs an annual maintenance of approximately $24,168.
- Land Information/GIS server maintenance is approximately $3,822.72 annually.

Software

- Sauk County utilizes ArcGIS 10.5.1 for development of its GIS infrastructure. ESRI's Local Government Information Model (LGIM) is used for the base database design. The LGIM is the central repository for most GIS data. Annual maintenance costs approximately $20,800.
- County plans to upgrade to ArcGIS Pro: Yes, by estimated date: 2022-2023.

Website Development/Hosting

- Sauk County hosts all website content locally, utilizing virtual servers for ArcGIS online, Website hosting, Register of Deeds LandShark, and Treasurer & Real Property ALRS systems. Trimin is the vendor for all Register of Deeds applications, Transcendent Technologies is the vendor for ALRS & Esri is the vendor for all GIS website and ArcGIS Online applications.

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Currently metadata is developed using ArcGIS 10.5.1 through ArcCatalog. We attempt to update the metadata as data is created or re-created. It is a work in progress. The software generates content consistent with FGDC Content Standard for Digital Geospatial Metadata.

Metadata Software

- **Metadata software:** **
  The software does generate metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata, and ISO geographic metadata standard 19115.
- **Metadata fields manually populated:** **

Metadata Policy

- **Metadata Policy:** **

Municipal Data Integration Process

- Municipal parcel polygon information for all Villages, along with the City of Wisconsin Dells, within Sauk County, is maintained by Land Information/GIS with integration of tax listing and assessment data from the ALRS. The County approached the City of Baraboo and City of Reedsburg about migrating their data to ESRI's Parcel Fabric. The county understood it was in a position to help both entities get into a standardized model and move forward with the latest technology in parcel management. The county agreed to migrate the data for them and train them on how to use and manage the Parcel Fabric. The project was a success, and all entities work well together. The City of Baraboo & Reedsburg handed over parcel maintenance to the County a couple years ago, so they can focus on municipal initiatives.

Public Access and Website Information

Public Access and Website Information (URLs)

Public Access and Website Information			
GIS Web mapping Application(s) Link - URL	GIS Download Link - URL	Real Property Lister Link - URL	Register of Deeds Link - URL
https://www.co.sauk.wi.us/landinformation	https://data-saukgis.opendata.arcgis.com/	http://lrs.co.sauk.wi.us/AscentLandRecords/PropertyListing/RealEstateTaxParcel#/Search	https://landshark.co.sauk.wi.us/LandShark/login

Single Landing Page/Portal for All Land Records Data	
URL	
https://data-saukgis.opendata.arcgis.com/	

Web Services/REST End Points	
URL	

County Webpage with Link to Statewide Parcel Map	
URL	
https://www.co.sauk.wi.us/landinformation/wisconsin-statewide-parcel-map-download	

Municipal Website Information	
Municipal Website	Municipal Website URL
City of Reedsburg – Reedsburg GIS	https://maps.ags.ruekert-mielke.com/Html5Viewer/Index.html?viewer=Reedsburg

Data Sharing

Data Availability to Public

Data Sharing Policy

- Sauk County distributes its data free and without restrictions to the public. We set up an official policy in 2014 to no longer charge for any distributed data. Sauk County does charge nominal fees for printed materials and a pricing list can be found at https://www.co.sauk.wi.us/landinformation/mapping-product-fees.

Open Records Compliance

- Full compliance

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- None

Government-to-Government Data Sharing

- Sauk County continues to share data among and with any & all-governmental agencies. Sauk

County shares data with the State of Wisconsin (DOA & DOR), State Cartographers Office (SCO), NRCS, DNR, FEMA, other counties, along with any municipalities within and surrounding Sauk County.

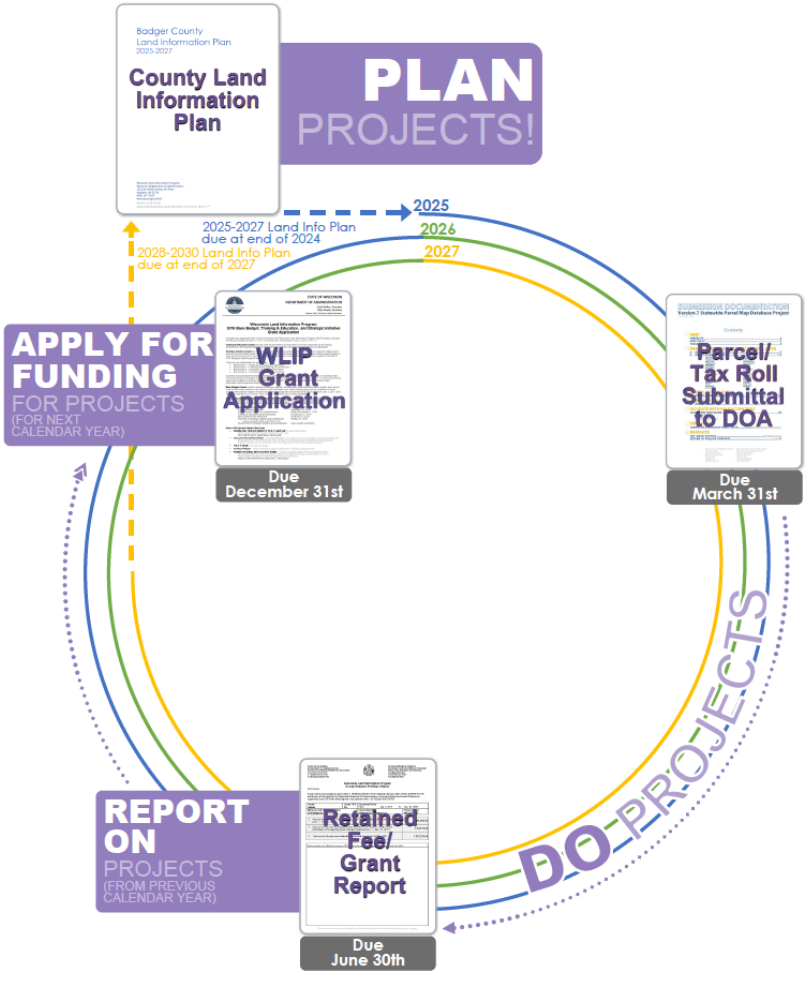
Training and Education

- Sauk County has worked extensively to provide as much data as possible free and accessible to the public as well as private entities. The County continues to improve its abilities to provide land records and related data in the best most accessible way possible. The County works to educate the public, private, as well as county departmental employees on what is available through the County GIS and Mapping sites.

  Educating and training individuals on the use of these sites and services is of the utmost importance. The county is continually inquiring for user feedback, along with providing insight into the systems, to provide for more user-friendly applications. To develop these sites and applications, Sauk County has taken the approach of seeking continual training and enrichment of the GIS, Land Records & related staff to be able to provide better services and make improvements to the county systems. It is an investment, which has allowed Sauk County to be better positioned to assist other departments in providing essential improvements to the services they provide. It is a mutually beneficial methodology that helps Sauk County provide to its citizens better services, leveraging the funding and infrastructure that the County has been charged with maintaining and developing.

4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects the county is currently undertaking or intends to pursue over its planning horizon. A project is defined as a temporary effort that is carefully planned to achieve a particular aim. Projects can be thought of as the *means* to achieving the county's mission for its land information system.



Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Title: Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)

Project Description

How Searchable Format Will Be Maintained

- Sauk County currently maintains its data in Searchable Format in an Enterprise Geodatabase
- Sauk County currently complies with the State's searchable format for Benchmarks 1 & 2.

Business Drivers

- Maintaining Searchable Format is key in providing Sauk County's land information data through our county websites, applications, and services.

Objectives/Measure of Success

- The objective is to continue to meet the Searchable Format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission).

Responsible Parties

- Land Information/GIS Department & ALRS vendor Transcendent Technologies

Estimated Budget Information

- See table at the end of this chapter for project budget information.

Project Plan for Parcel Completion (Benchmark 3)

Project Title: Project Plan for Parcel Completion (Benchmark 3)

Project Description

Current status of parcel data

- Current status: Maintenance mode [See **Parcel Layer Status** in Chapter 2]
- Tally of total number of parcels in digital format: 50,514
- Estimated number of parcels yet to be digitized: None

Project Plan for PLSS (Benchmark 4)

Project Title: Project Plan for PLSS (Benchmark 4)

Project Description

Current Status:

- See PLSS Layer Status table in Chapter 2

Planned Approach

- Sauk County's plan is to acquire approximately 100 PLSS corners per year, depending upon funding available. These corners we do not have coordinates for, and many do not have a tie sheet (mainly Center of Sections). This project is ongoing and involves acquiring survey grade GPS coordinates for all corners countywide.

Current Status

- **Tally of the total number of corners:** See PLSS Layer Status table in Chapter 2.
- **Remonumentation status:** See PLSS Layer Status table in Chapter 2.
- **Coordinate status (accuracy class) if known:** See PLSS Layer Status table in Chapter 2.

Missing Corner Notes

- **Documentation for any missing corner data:** We may acquire corners that are missing, or in inaccessible areas, to establish a more complete PLSS framework. No plans to do so specifically for this 3-year plan cycle.

County Boundary Collaboration

- Sauk County has worked to establish county boundary coordinates along the borders with adjacent counties in the past and will continue to do so. Typically, Surveyors who do work along the borders send a tie sheet to both counties, but not in all cases, so coordination is key.

Business Drivers

- Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and other county land information system layers.
- Having a complete and accurate PLSS provides the framework for parcel integration.
- PLSS is key to providing accurate mapping, providing accurate information for development throughout the County.

Objectives/Measure of Success

- The objective is to meet Benchmark 4 (Completion and Integration of PLSS) in the next 5-10 years, 2030-2035.
- Number of corners to be remonumented and/or rediscovered by 2027: dependent upon budget/grants/projects available.
- Number to have new coordinates established by 2027: dependent upon budget/grants/projects available
- Accuracy class for these new coordinates by 2027: Survey Grade
- Number of new corner coordinates to be integrated into the parcel fabric by 2027: 150-200 dependent upon the availability of time and resources
- Number of new ties sheets to be posted online by 2027: dependent upon number of new coordinates established
- Contractor projects being awarded is relied upon having ample pre-qualified surveyors to do the work
- Contractors are extremely busy with private surveying work throughout the area
- Completion & Integration of PLSS is highly dependent upon successful award of Strategic Initiative Grants

Project Timeframes

Timeline – Project Plan for PLSS work 2025-2027

Milestone	Duration	Date
Project start	–	January 1, 2019
Project complete		December 31, 2030*
*Estimate	Or until PLSS is	complete/at maintenance mode

Responsible Parties

- Contracted Surveyors 100%

Estimated Budget Information

- See table at the end of this chapter.

Project #1: Incorporate PLSS into Parcel Fabric

Project Description

- To improve parcel framework, by incorporating the PLSS corner information, modifying parcel polygons to accurately reflect location.
- **Land Info Spending Category:** PLSS

Business Drivers

- County parcel data lacks detailed location information, making it less useful
- County land information system needs to reflect specific PLSS corner information to incorporate parcel updates more easily into the County GIS.

Objectives/Measure of Success

- PLSS 100% complete & in maintenance mode
- Parcels displayed on GIS applications are tied to and hold accurate, current location information.
- New surveys & parcels mapped fit seamlessly into the GIS framework

Project Timeframes

Timeline – Project #1 Title		
Milestone	**Duration**	**Date**
Project #1 start	–	May 1, 2016
Projects will be coordinated to focus on PLSS incorporation	Will Vary	Continue as able
Project complete		Unknown at this time

Responsible Parties

- Land Information/GIS Staff 100%

Estimated Budget Information

- See table at the end of this chapter.

Project #2: Create Current Land Use layer

Project Description

- Create a Current Land Use layer that will be available and integrated into County GIS.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Current Land Use is desired information, highly requested, that has not been available
- Along with Zoning information, will provide more information to interested parties

Objectives/Measure of Success

- Incorporate information into GIS website(s)
- Provide detailed information about land use in Sauk County

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (30%)
- Land Resources & Environment (LRE) (70%)

Estimated Budget Information

- See table at the end of this chapter.

Project #3: Create Future Land Use layer

Project Description

- Create a Future Land Use layer that will be available and integrated into County GIS.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Current Land Use is desired information, highly requested, that has not been available
- Along with Zoning information, will provide more information to interested parties

Objectives/Measure of Success

- Incorporate information into GIS website(s)
- Provide detailed information about land use in Sauk County

Project Timeframes
- Unknown at this time

Responsible Parties
- Land Information/GIS Staff (30%)
- Land Resources & Environment (LRE)(70%)

Estimated Budget Information
- See table at the end of this chapter.

Project #4: Acquire Orthophotography 2023-2025

Project Description
- Obtain Orthophotography through Wisconsin Regional Orthophotography Consortium (WROC) or other opportunity.
- **Land Info Spending Category:** Orthoimagery

Business Drivers
- Have more frequent cycle (3-5years) orthophotos will assist in parcel mapping, conservation practices, development & more
- New Orthophotos would be posted through ArcGIS Community Maps Program, available on Tax Parcel iSite
- County Departments & Public benefit from access to updated orthophotos

Objectives/Measure of Success
- Ability to observe changes in development, land use & landscape
- Provide access to County Departments & Public with most up-to-date data, improving services & practices

Project Timeframes
- Unknown at this time

Responsible Parties
- Contractor – (80%)
- Land Information/GIS staff (15%)
- MIS (5%)

Estimated Budget Information
- See table at the end of this chapter.

Project #5: Re-Survey books – data on GIS

Project Description
- Take scanned Re-Survey books, incorporate data into & make available on GIS
- **Land Info Spending Category:** Other Parcel Work

Business Drivers
- Looking at the data is difficult from index to data pages. Need to improve searching this data
- Data provides a wealth of historic information to those doing research
- Need this data accessible through online GIS services

Objectives/Measure of Success
- Re-Survey images and information accessible through the online services of the County GIS
- Surveyors use it regularly

Project Timeframes
- Unknown at this time

Responsible Parties

- Land Information/GIS 90+%)
- County Surveyor (5-10%)

Estimated Budget Information

- See table at the end of this chapter.

Project #6: Sauk County Abstract Title records to ROD indexing

Project Description

- Migrate data scanned from Sauk County Abstract Title (SCAT) records to ROD indexing system. Sauk Co obtained all title index data from SCAT.
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- The SCAT records provide a wealth of historic information related to property records in Sauk County
- This data is not very useful alone, but in combination with ROD records or linked to ROD indexing (LandShark), provides a great resource

Objectives/Measure of Success

- Having access to this valuable historic information will enhance research of County ROD records
- SCAT data records will be made available for online access
- Link SCAT records & ROD indexing records, providing ability to view them in same application. This is a desire, may not be possible.

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (15%)
- Register of Deeds (5%)
- Management Information Systems (MIS)(20%)
- Contractor (Trimin/Transcendent) (60%)

Estimated Budget Information

- See table at the end of this chapter.

Project #7: Floodplain to Permitting System – Land Use Permits

Project Description

- Link structures in the Floodplain to Permitting System for use with Land Use Permits
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Data related to structures in the Floodplain is missing from Permitting System (OpenGov)
- Linking structure data would enhance the Permitting System (OpenGov)

Objectives/Measure of Success

- Structures within the Floodplain would be directly linked to Permitting System (OpenGov)
- Access to this information would allow the County to know exactly where structures are located within Floodplain

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Land Resources & Environment (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #8: Georeference 1938 Wisconsin Land Economic Inventory

Project Description

- Georeference 1938 Wisconsin Land Economic Inventory, providing significant historic data
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Access to this map and georeferencing into County GIS data provides historic reference.

Objectives/Measure of Success

- Ability to view this map in conjunction with other County GIS data through online applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (100%)

Estimated Budget Information

- See table at the end of this chapter.

Project #9: Inventory of Parks Assets within GIS

Project Description

- Create a complete inventory for Sauk County Parks data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Park's information is not complete in County GIS
- An inventory of Sauk County Parks was completed, need to enhance this

Objectives/Measure of Success

- Ability to access Park's information on County GIS applications
- Availability to asset information within the Parks
- This is an ongoing project

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Parks (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #10: Inventory of Trails within the GIS

Project Description

- Create a complete inventory for Sauk County Trails data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Trail information is lacking in County GIS

Objectives/Measure of Success

- Ability to access Trail information on County GIS applications
- Trail information will include County, township, municipal as well as State Trail information
- This is an ongoing project

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (85%)
- Parks (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #11: Manure Pit Inventory. Link to OpenGov

Project Description

- Create an inventory for Sauk County Manure Pit data, and provide on County GIS applications
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Manure Pit inventory is needed for monitoring and evaluating manure storage practices
- Manure Pit inventory is needed for implementation of Sauk County Chapter 26 Agricultural Performance Standards and Manure Management Ordinance.

Objectives/Measure of Success

- Ability to easily access Manure Pit information on County GIS applications
- Currently have a good idea where manure pits are located, but this will provide better location of where ALL manure pits are and provide better cataloguing of details for each.

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Land Resources & Environment (LRE) (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #12: Quarry Inventory. Link to OpenGov

Project Description

- Inventory, link to CPZ Permitting System, provide on GIS Sauk County Quarry data
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Quarry data is very important and essential for evaluating practices and development in Sauk County
- Providing an inventory of Quarry data benefits the permitting process
- Currently have no information – need GPS quarry data
- Need an application to that provides clear picture of where all quarries are, verify amount quarry is open part versus what is reclaimed
- Quarry data needs to be available on County GIS applications, for internal & external use

Objectives/Measure of Success

- Ability to access a Quarry Inventory on County GIS applications
- Quarry Inventory data is directly linked to OpenGov application & accessible

- Quarry application will provide essential data regarding quarry locations, amount open and amount reclaimed, along with related information

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Land Resources & Environment (LRE) (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #13: Landfill Inventory. Link to OpenGov

Project Description

- Inventory, link to CPZ Permitting System, provide on GIS Sauk County Quarry data
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Landfill data is essential for evaluating practices and development in Sauk County
- Providing an inventory of Landfill data benefits the permitting process
- Landfill data needs to be available on County GIS applications, for internal & external use

Objectives/Measure of Success

- Ability to access a Landfill Inventory on County GIS applications
- Landfill Inventory data is directly linked to OpenGov application & accessible

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (50%)
- Land Resources & Environment (LRE) (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #14: Conditional Use Permit (CUP) Inv. -Link to OpenGov

Project Description

- Create a complete inventory of CUP's, link to permitting software and provide internal GIS applications.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Need an inventory and application to track CUP's, for active land used, monitoring conditions, and recording permitting process.
- Need map of location of all active CUP's

Objectives/Measure of Success

- Ability to access CUP inventory on GIS applications.
- Inventory directly linked to permitting software.
- Application that provides data on status of CUP, conditions, permitting dates, and contact information.

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (50%)
- Land Resources & Environment (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #15: Incorporate OpenGov Information into GIS

Project Description

- Incorporate Land Resources and Environment (LRE) information into GIS.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Allow LRE permit data to be easily and readily available through GIS applications.
- Connect actual land use data with other data layers.
- Connect land use data tools for seamless data access.

Objectives/Measure of Success

- Create applications that utilize permit data.
- Easily accessible data for staff to utilize and improve services.

Project Timeframes

- Current – March 2025

Responsible Parties

- Land Information/GIS (50%)
- County Surveyor (50%)

Estimated Budget Information

- See table at the end of this chapter.

Project #16: Address Ranges for road centerlines, through GIS

Project Description

- Capture Actual Address Ranges for road centerlines through GIS
- **Land Info Spending Category:** Address Points

Business Drivers

- Accurate Address Ranges are not available within GIS data at this time
- Access to this data through County applications would enhance County GIS applications

Objectives/Measure of Success

- Address Ranges would be available through County GIS applications
- Provide essential data for enhancement of Emergency Service applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (95%)
- Treasurer/Real Property (5%)

Estimated Budget Information

- See table at the end of this chapter.

Project #17: Cellular Tower Inventory

Project Description

- Create a GIS Cellular Tower Inventory.
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Unknown where all towers are located
- Desire to know where these are, where the towers are lacking
- Economic Development needs these towers to provide infrastructure for business development
- Having Cellular Tower Inventory would enhance County GIS applications
- Required for NG911

Objectives/Measure of Success

- Ability to locate Cellular towers through County GIS applications
- Data related to towers would be accessible through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS (100%)

Estimated Budget Information

- See table at the end of this chapter.

Project #18: Link Parcel Data to county assessor data inventories

Project Description

- Link Parcel Data to various assessor data inventories throughout the County.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Each Municipality has their own contracted assessor
- Parcel Data does not include assessor data inventories through County GIS applications

Objectives/Measure of Success

- Parcel Data will be linked to all assessor inventories through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS staff (70%)
- Real Property (15%)
- Municipality Assessor's (Private-Contracted) (15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #19: Highway & ROW plan inventory, incorporating State info

Project Description

- Enhance Highway & ROW plan inventory by incorporating State information
- **Land Info Spending Category:** Digital Parcel Mapping; Other Parcel Work

Business Drivers

- Limited information regarding Highway & ROW plan through County systems

- Increased need for access to data related to Highway & ROW plans
- State information would enhance an inventory and provide important data to County Systems

Objectives/Measure of Success

- Highway & ROW plan inventories would be accessible through County GIS applications
- State information related to Highway & ROW plan inventories accessible through County GIS applications

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff (85%)
- Highway (+/- 15%)

Estimated Budget Information

- See table at the end of this chapter.

Project #20: Link GIS features to LandShark

Project Description

- Link GIS features to LandShark, incorporating parcel #'s to documents. Parcel numbers not on deed documents. Functionality to add parcel numbers is within ROD system, not part of process at this time.
- **Land Info Spending Category:** Digital Parcel Mapping; Website Development/Hosting Services

Business Drivers

- LandShark has limited information related to parcel & GIS feature information.
- More information is needed related to the parcel in LandShark to enhance research and provide link

Objectives/Measure of Success

- LandShark will provide through links more detailed information related to parcel & GIS feature information
- Researching parcels more seamlessly, ability to find more information in one location
- Parcel Numbers will be added at the time of recording documents

Project Timeframes

- 2024

Responsible Parties

- Land Information/GIS (5%)
- Register of Deeds (15%)
- Contractor (Trimin-LandShark) (80%)

Estimated Budget Information

- See table at the end of this chapter.

Project #21: Land Notification Application

Project Description

- Allow Property owners to be notified when there is activity regarding a specific parcel.
- **Land Info Spending Category:** Software; Hardware; Website Development/Hosting Services

Business Drivers

- Allow Sauk County property owners to get notified if there is any activity on a specific parcel.
- Program is designed to be a tool to combat deed/title fraud.

Objectives/Measure of Success

- Property owners with notification when there is any activity on a particular parcel they specify.
- Provide a service that allows owners a sense of security in monitoring their property.

Project Timeframes

- 2024

Responsible Parties

- Management Information Systems (MIS & ROD)(10%)
- Contractor Trimin (90%)

Estimated Budget Information

- See table at the end of this chapter.

Project #22: Creation of US National Grid

Project Description

- Incorporate US National Grid for Search and Rescue
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Need a grid system that covers the entire county.
- Primary focus was for search and rescue at Devils Lake State Park.

Objectives/Measure of Success

- Incorporate the US National Grid in Dispatch.
- Develop an application to use on the ground and aid in a command center

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff

Estimated Budget Information

See table at the end of this chapter.

Project #23: Create ETL for NG9-1-1 Data Standardization

Project Description

- Create Scripts and Models to push County GIS data into the NG911 data model for consumption to a State or regional repository that feeds NG911 systems
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Required to have our GIS data in NG911 format

Objectives/Measure of Success

- Able to provide data to State for mass consumption
- Neighboring counties can easily incorporate into E911 system

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff

Estimated Budget Information

See table at the end of this chapter.

Project #24: Consolidate Future Land Use files from all 39 Munis

Project Description

- Collect Future Land Use data from all 39 municipalities in Sauk County.
- Load into Enterprise database.
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Many requests for this data.
- Data needs to be centralized and easily accessible on our Open Data website

Objectives/Measure of Success

- Many requests for this data.
- Data needs to be centralized and easily accessible on our Open Data website

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff
- Land Resources & Environment (LRE)

Estimated Budget Information

See table at the end of this chapter.

Project #25: Create Field Asset Collection & Inspection Apps

Project Description

- Create Field Asset Collection and Inspection Apps as needed to streamline the process of data collection
- Add related inspection table with photo and video capabilities
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Provide an application that's easy to use to collection more information than conventional methods
- Create a centralized asset database that is searchable
- Centralize pictures with each asset
- Create criteria for yearly inspection

Objectives/Measure of Success

- Provide applications for everyday field work, streamlining collection and processing
- Data will be more easily accessible, allowing staff to work with data better and provide great service

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff
- Land Resources & Environment (LRE)

Estimated Budget Information

See table at the end of this chapter.

Project #26: Drone Technology Implementation

Project Description

- Purchase drone aircraft, camera, and software to assist with mapping of hard to see buildings, non-metallic mining, trails, land use. Also, to assist with permit/ordinance compliance verification and surveying projects performed by County Surveyor
- **Land Info Spending Category:** Digital Parcel Mapping, Hardware

Business Drivers

- Having accurate building footprints are necessary for public safety reasons
- More accurate trails assist in more effective search and rescue operations
- Land Resources and Environment staff could gain efficiencies following up on violations. The camera would also provide requisite documentation.

Objectives/Measure of Success

- Reduce staff time on sites
- Confirm information submitted by landowners more efficiently
- Reduced time in emergency service response
- Zoning enforcement with more efficient site reviews
- Reduced time in completing County Surveyor projects for County

Project Timeframes

- 2022-2030

Responsible Parties

- Land Information/GIS Staff
- County Surveyor
- Land Resources & Environment (LRE)

Estimated Budget Information

Estimates are anywhere from $10,000 to $50,000. We would also have a budget for training.

Project #27: Create 3D Representations

Project Description

- Create 3D representations of buildings in downtown settings
- **Land Info Spending Category:** Digital Parcel Mapping

Business Drivers

- Help promote the assets in Sauk County
- Determine line of sight and viewshed
- Provide communities with more tools to help with analysis, growth, and revitalizations of downtown areas

Objectives/Measure of Success

- Provide Communities with an application/service using the resulting data in decision making

Project Timeframes

- Unknown at this time

Responsible Parties

- Land Information/GIS Staff

Estimated Budget Information

See table at the end of this chapter.

Project #28: Enter Parcel Numbers for Historic ROD Documents

Project Description

- Review Historic Documents, identify parcel numbers specified on documents.
- Enter Parcel Numbers to searchable field, defined by indexing software, allowing search by parcel number
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- Increased access to ROD records
- Provide ease of use to obtain records information

Objectives/Measure of Success

- Having access to this historic information will enhance research and value of County ROD records

Project Timeframes

- Unknown at this time

Responsible Parties

- ROD, Consultant

Estimated Budget Information

See table at the end of this chapter.

Project #29: Enter Grantors/Grantees 1900-1975

Project Description

- Enter Grantors/Grantees from 1900-1975 into Electronic Index
- Review old book indexes, enter grantor/grantee information in searchable fields in indexing software
- Provide a computerized search of grantor/grantee from 1900 - present
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- Increased access to ROD records
- Provide ease of use to obtain records information

Objectives/Measure of Success

- Having access to this historic information will enhance research and value of County ROD records

Project Timeframes

- Unknown at this time

Responsible Parties

- ROD, Consultant

Estimated Budget Information

See table at the end of this chapter.

Project #30: Enter Grantors/Grantees 1834-1900

Project Description

- Enter Grantors/Grantees from 1834 – 1900 into Electronic Index
- Review old book indexes, enter grantor/grantee information in searchable fields in indexing software
- Provide a computerized search of grantor/grantee from 1834 - present
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- Increased access to ROD records
- Provide ease of use to obtain records information

Objectives/Measure of Success

- Having access to this historic information will enhance research and value of County ROD records

Project Timeframes

- Unknown at this time

Responsible Parties

- ROD, Consultant

Estimated Budget Information

See table at the end of this chapter.

Project #31: Enter Legal Descriptions 1975-2004

Project Description

- Enter Legal Descriptions 1975-2004 into Tract Index
- Inspect scanned documents, identify legal descriptions, enter legal descriptions in searchable field within indexing software
- Provide for searching by legal description for all documents from 1975 - present
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- Increased access to ROD records
- Provide ease of use to obtain records information

Objectives/Measure of Success

- Having access to this historic information will enhance research and value of County ROD records

Project Timeframes

- Unknown at this time

Responsible Parties

- ROD, Consultant

Estimated Budget Information

See table at the end of this chapter.

Project #32: Identify, Index into Gtr/Gte and Tract all Easements

Project Description

- Identify, Index into Grantor/Grantee and Tract all documents indexed as Easements
- Search & identify all easement documents using both electronic and paper indexes
- Enhance indexing of easement by entering doc type, grantor, grantee, legal description and parcel number as specified for all documents from 1840 – present.
- **Land Info Spending Category:** ROD Indexing (Other Parcel Work)

Business Drivers

- Increased access to ROD records
- Provide ease of use to obtain records information

Objectives/Measure of Success

- Having access to this historic information will enhance research and value of County ROD records

Project Timeframes

- Unknown at this time

Responsible Parties

- ROD, Consultant

Estimated Budget Information

See table at the end of this chapter.

Completed Projects

Since the last Land Information plan (2019-2021), Sauk County has completed numerous projects. These projects have been completed with the work from multiple departments, working together to bring land information and GIS data and services to the public. Our main goal is to provide an integrated seamless system by which county staff, businesses and the public can get information related to parcels, tax/real property, planning & zoning, survey, deeds & documents and a host of other related information.

Below are some of the projects that have been completed since the last Land Records plan:

- Complete V9-V10 Statewide Parcel Map Database Project initiative.
- Submission to State V9-V10 Statewide Parcel Map Database Project initiative data.
- Completion of Public Credit Card Online Payment Access to ROD records.
- Completed Monumentation of 108 Section corners, utilizing WLIP Strategic Initiative Grant funds.
- Acquired High Density LiDAR for Devil's Lake Bluffs and surrounding area.
- Completed GIS data in preparation for NG911 activities.
- Created Future Land Use data for all Towns in Sauk County.
- Created a Lake Shore Habitat Assessment field application for Dutch Hollow.
- Created Natural Gas and Electric Boundary data for dispatch.
- Added all Bouldering locations at Devil's Lake State Park to GIS.
- Collected all surrounding county data and pushed into our model to load in dispatch.
- Created DNR Fire Rang boundaries and Ho Chunk Nation Patrol Sectors.
- Update Zip Code Boundaries to match the USPS Routes.
- Created a new Livestock Inventory Field Application.
- Added Mountain Biking Trails, Dutch Hollow Trail and Hemlock Draw Trail.
- Upgraded to the latest ESRI software, transition to ArcGIS Pro, and rebuilt all legacy infrastructure to work in Pro.
- Maintenance of Plat of Surveys, scanning, indexing, and placing text on GIS.
- Maintenance of Tie Sheet Finder & Corner Control Project Planning (CCPP) applications.
- Update and maintenance of Sauk County Open Data Repository.
- Update of Land Information/GIS website landing page.

Estimated Budget Information (All Projects)

Estimated Budget Information

			Land Info Plan Citations	
Project Title	**Item**	**Unit Cost/Cost**	Page # or section ref.	**Project Total**
1) Incorporate PLSS into Parcel Fabric	GIS Staff	Unknown at this time	Sec 4, pg 30	
2) Create Current Land Use Layer	LRE staff GIS staff	Unknown at this time	Sec 4, pg 31	
3) Create Future Land Use Layer	LRE staff GIS staff	Unknown at this time	Sec 4, pg 31	
4) Acquire LiDAR 2023-2025	Unknown – possibly Ayres Associates/WROC	Unknown at this time	Sec 4, pg 32	
5) Re-Survey books – data on GIS	Contractor, GIS/MIS staff, ROD	Unknown at this time	Sec 4, pg 32	
6) SCAT records to ROD indexing	GIS staff, LRE staff	Unknown at this time	Sec 4, pg 33	
7) Floodplain to Permitting	GIS staff	Unknown at this time	Sec 4, pg 33	
8) Georeference 1938 WI LEI Map	GIS staff, Parks staff	Unknown at this time	Sec 4, pg 34	
9) Inventory of Parks Assets within GIS	GIS staff, Parks staff	Unknown at this time	Sec 4, pg 34	
10) Inventory of Trails within GIS	GIS staff, LRE staff	Unknown at this time	Sec 4, pg 34	
11) Manure Pit Inventory. Link to OpenGov	GIS staff, LRE staff	Unknown at this time	Sec 4, pg 35	
12) Quarry Inventory. Link to OpenGov	GIS staff, LRE staff	Unknown at this time	Sec 4, pg 35	
13) Landfill Inventory. Link to OpenGov	GIS staff, LRE staffCo Surveyor	Unknown at this time	Sec 4, pg 36	
14) Conditional Use Permit (CUP) Inv. Link to OpenGov	GIS staff, LRE staffGIS staff, Real Property	Unknown at this time	Sec 4, pg 36	
15) Incorporate OpenGov Information into GIS	GIS staff, Real Property GIS staff	Unknown at this time	Sec 4, pg 37	
16) Address Ranges for road centerlines, through GIS	GIS staff GIS staff, Treasurer/Real Property, Assessors	Unknown at this time	Sec 4, pg 37	
17) Cellular Tower Inventory	GIS staff, Real Property, AssessorsGIS staff, Highway	Unknown at this time	Sec 4, pg 38	
18) Link Parcel Data to county assessor data inventories	GIS staff, Highway Contractor, GIS staff, ROD	Unknown at this time$2400.	Sec 4, pg 38	
19) Highway & ROW plan inventory, incorporating State info	Contractor, MIS & ROD Contractor, MIS	Unknown at this time$8591/$1000 Ann. Maint.	Sec 4, pg 38	$2.400
20) Link GIS features to LandShark	Contractor, MIS GIS staff, LRE staff	Unknown at this time	Sec 4, pg 39	$8,591/$1000 ann. maint.
21) Land Notification Application	GIS staff GIS staff	Unknown at this time	Sec 4, pg 39	
22) Creation of US National Grid	GIS staff GIS staff	Unknown at this time	Sec 4, pg 40	
23) Create ETL for NG9-1-1 Data Standardization	GIS staff, LRE staff GIS staff	Unknown at this time	Sec 4, pg 41	
24) Consolidate Future Land Use files from all 39 Munis	GIS staff, LRE staff	Unknown at this time	Sec 4, pg 41	

25) Create Field Asset Collection & Inspection Apps	GIS staff, LRE staff	$10,000-$50,000, plus additional costs for training	Sec 4, pg 41	
26) Drone Technology Implementation	GIS staff, GIS staff, County Surveyor, LRE staff	Unknown at this time	Sec 4, pg 42	$10,000-$50,000, plus additional costs for training
27) Create 3D Representations	Contractor, RODGIS staff	Unknown at this time	Sec 4, pg 43	
28) Enter Parcel Numbers Historic ROD Docs	Contractor, RODGIS staff	Unknown at this time	Sec 4, pg 43	
29) Enter Grantors/Grantees 1900-1975	Contractor, ROD	Unknown at this time	Sec 4, pg 43	
30) Enter Grantors/Grantees 1834-1900	Contractor, ROD	Unknown at this time	Sec 4, pg 44	
31) Enter Legal Descriptions 1975-2004	Contractor, ROD	Unknown at this time	Sec 4, pg 44	
32) Identify, Index into Gtr/Gte and Tract all Easements	Contractor, ROD	Unknown at this time	Sec 4, pg 45	
			GRAND TOTAL	**$20.991 – $70,991**

Appendix A
Land Information Council September 23, 2021 Meeting Minutes

Committee Members Present: Bailey, Dederich, Deitrich, Felton, Geoghegan, Jelinek, Pate, Platzke, Simmert
Committee Members Absent: Gavin, Hameau, Wilson

1. **Call to Order:** called meeting to order @ 3:07pm

2. **Approve Agenda:** Motion by Geoghegan, seconded by Jelinek to adopt agenda.

3. **Approve Minutes:** Motion by Jelinke, seconded by Geoghegan to approve minutes from January 26, 2021 meeting.

4. **Public Comment:** none

5. **Communications:** none

6. **Review of 2021 Projects and Budget Status:** Nothing to review.

7. **2022 Land Records Modernization Budget: Discussion 2022 Goals & Priorities**

    a. **Review of final budget:** Pate distributed 2022 Budget Highlights, 2022 Budget Program Cost Schedule and GIS/LRM 2022 Budget documents. Biggest changes for 2022 was the addition of the Real Property and GIS Analyst staff positions and budget, which are levy funded. There was a 6%+ increase in health insurance costs which amounted to approx. $40,000 for GIS staff and the remainder of the total increases came from the wages, benefits and budget for the Lister and GIS Analyst. The LRM budget increased with regards to a few budget items; Consulting ($40,000 to $50,000), Maintenance & MIS Chgs both went up slightly. The remainder of the GIS/LRM budget increases are due to salary & benefit increases.

8. **Discussion of Land Records Activities & Updates by Department**:

    a. **Surveyor Report** – Dederich gave an update stating that the last two projects that are remaining are still in process. The surveyor, Filus, sent him an update and noted all the research and background work has been completed. He anticipates having one project completed by the first part of November, with the other project completed shortly thereafter.

    b. **Land Records GIS** –
        i. *2020 Census Redistricting*- Felton explained the work that's been done so far with Redistricting. The municipalities have til October 18th to approve their wards. The Land Information/GIS staff did the ward designation work for the majority of the municipalities in the county. City of Reedsburg, City of Baraboo, & City of Wisconsin Dells are creating their own wards. The next step will be for the county to approve the overall redistricting work, the supervisory districts and the wards. There will be a public hearing and county board meeting on November 16th to approve the final maps. Committee members commended the Land Information/GIS staff for their work with the Redistricting.

        ii. *2022 WLIP Grant Application* –Felton noted that the 2022 application was recently released. The Strategic Initiative grant is for $60,000 which is the most that's ever been offered for those grants.

Felton mentioned that if there are any projects that anyone would like to do with those potential funds to let her know as soon as possible. The grant application is due December 31, 2021.

iii. *2022-2024 Sauk County Land Records Modernization Plan (Final)*- Felton had emailed everyone the final plan. Felton reminded everyone that the plan needed to be approved for submittal to DOA at this meeting. There were a lot of edits and updates made to the plan over the last couple months. Felton thanked all those who contributed to the content. Felton explained that all the updates and comments and cleanup of the document has been finalized. There was a minor edit mentioned regarding wording. Felton will make those edits. No further comments on plan content.

1. *Approve 2022-2024 plan and forward to DOA*- Motion by Pate, to approve the 2022-2024 Sauk County Land Information Plan with the edits mentioned and forward final plan to DOA. The motion was seconded by Dederich. No further discussion. Motion carried.

9. **Agenda items for next meeting:**

10. **Next meeting:** Tuesday January 25, 2022.

11. **Adjournment:** Motion by Pate, seconded by Jelinek to adjourn @ 3:33 pm.

Drafted & Submitted by,
Kelly K. Felton, Secretary