

Dunn County

Land Information Plan

2025-2027



Dunn County Land Information Services

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EXECUTIVE SUMMARY

About this Document. This document is a visioning guide and land information plan for Dunn County prepared by the land information office (LIO) staff and reviewed by the Dunn County land information council (LIC.) 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 in order to improve the efficiency of government and provide improved government services to both private sector and internal and external governmental stakeholders.

WLIP Background. The Wisconsin Land Information Program, WLIP, is administered by the Wisconsin Department of Administration, and is funded by document recording fees collected by register of deeds at the county-level. In 2023, Dunn County was awarded \$106,320 in WLIP grants and retained a total of \$64,680 in local register of deeds document recording fees for land information modernization efforts.

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 Dunn County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records information. A countywide land information system supports economic development, emergency planning and response, and a host of other citizen services. The Dunn County land information system integrates and enables efficient access to information that describes the physical characteristics of land, as well as the property boundaries and rights attributable to landowners. This is only a small sample of the resources that are created, and maintained, through the Dunn County Land Information Office.

Mission of the Land Information Office. In the next three years, Dunn County’s Land Information Office strives to be recognized for its accurate and comprehensive land information datasets and modernized mapping application. We are also targeting improvements in governmental efficiencies by broadening the utilization of the GIS, improvements in parcel mapping precision by integrating a survey accurate framework into the parcel fabric and introducing a level of responsiveness and agility in meeting the land records needs of all our customers.

Land Information Office Projects. To realize this mission, in the next three years, the county land information office will focus on the following projects: (also see the designated section for new projects later in this document)

Dunn County Land Information Projects: 2025-2027	
Project #1	Project #1: Emergency Management Data Development & Maintenance
Project #2	Project #2: Aerial Imagery Collection
Project #3	Project #3: Editing for Parcel Fabric Accuracy and PLSS Line Work
Project #4	Project #4: Core System Hardware & Software Upgrades
Project #5	Project #5: Web & Mobile Mapping Applications
Project #6	Project #6: Mapping of Special Taxing Jurisdictions
Project #7	Project #7: Right-of-Way Development
Project #8	Project #8: ArcGIS Pro Migration
Project #9	Project #9: Scanning and Indexing of Grantor/Grantee Indexes
Project #10	Project #10: GIS and Land Records Software Hosting and Maintenance Service
Project #11	Project #11: 3DEP LiDAR Acquisition

The remainder of this document provides more details on Dunn County and the WLIP, summarizes current and future land information projects, and reviews the county's status in completion and maintenance of the map data layers known as Foundational Elements.

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)

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

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 Dunn County is meeting these benchmarks appears in the Foundational Elements section of this plan document.

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)

County Land Information System History and Context

Dunn County has a rich tradition of land records, spanning across many departments over the last 3 decades. In the mid to late 1990's, the Dunn County land records program was primarily driven by the real property, surveying, zoning and land conservation departments. As the county advanced its technological capacity, the Information Technology department became a more integral part of the modernization program. In 2006, a newly dedicated geographic information systems (GIS) specialist position was created and placed within the IT department. The technical, cross-discipline, and quickly evolving nature of the GIS and land information fields, made IT a logical home for this new position.

Nearly 20 years later, after many retirements, department restructuring/relocations, and personnel changes, the GIS specialist position has evolved into the land information officer (LIO) role within the Land Information section of IT, which is a part of the Department of Administration. In 2016, a reorganization of the IT division took place, resulting in the addition of a full time GIS/IT Specialist position. The Real Property Lister position was converted to full time in 2016 as well and remains part of the Land Information Section.

County Land Information Plan Process

County land information plans were initially updated every five years. However, as a result of Act 20, counties must update and submit their plans to DOA for approval every three years however the plan may incorporate a planning horizon that is longer if the needs and priorities warrant. 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 land information staff, the Dunn County Land Information Council, and others as listed below.

County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
*Rachel Wells	Land Information Officer	Dunn County Land Information Office	rwells@co.dunn.wi.us	715-231-6514
*Lynn Niggemann	Treasurer	Dunn County Treasurer's Office	lniggemann@co.dunn.wi.us	715-231-6561
*Sarah Hanson	Real Property Lister	Dunn County Land Information Office	sjedwards@co.dunn.wi.us	715-231-6548
*Kelly McCullough	County Board Member (Chair)	Dunn County Executive Committee	kmccullough@co.dunn.wi.us	715-231-6405
*Heather Kuhn	Register of Deeds	Dunn County Register of Deeds Office	hkuhn@co.dunn.wi.us	715-232-1228
*Rich Ellefson	Realtor	The Ellefson Group	office@ellefsongroup.com	715-235-8018
*Melissa Gilgenbach	E911 Director	Dunn County E911 Emergency Services	mgilgenbach@co.dunn.wi.us	715-231-2982
*Thomas Carlson	County Surveyor	Dunn County Environmental Services Department	tcarlson@co.dunn.wi.us	715-231-6526
*Daniel Dunbar	Chief Information Officer/ Assistant County Manager	Dunn County IT Department	ddunbar@co.dunn.wi.us	715-231-6517
Anne Wodarczyk	Planner & Zoning Administrator	Dunn County Environmental Services Department	awodarczyk@co.dunn.wi.us	715-231-6522
Chase Cummings	County Conservationist	Dunn County Environmental Services Department	chrcummings@co.dunn.wi.us	715-232-6535
Dustin Binder	Highway Commissioner	Dunn County Highway Department	dbinder@co.dunn.wi.us	715-232-2181
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* Land Information Council Members designated by asterisk

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.

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 in order 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.

FOUNDATIONAL ELEMENTS

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

PLSS

Public Land Survey System Monuments

Layer Status (98% complete but also in maintenance phase)

PLSS Layer Status	
	Status/Comments
Number of PLSS corners (section, 1/4, meander) set in original government survey that can be remonumented in your county	<ul style="list-style-type: none"> 2800
Number and percent of PLSS corners capable of being remonumented in your county that have been remonumented	<ul style="list-style-type: none"> 2765 or 98.8%
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition) <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 2373 or 86% (all survey grade, no other positions, with lesser accuracies, are listed)
Number of survey grade PLSS corner coordinates integrated into county digital parcel layer (see definition of PLSS integration)	<ul style="list-style-type: none"> Approximately 2100
Number and percent of non-survey grade PLSS corners integrated into county digital parcel layer	<ul style="list-style-type: none"> None, although our original parcel mapping vendor integrated a lot of aerial photo “picks” if no survey grade coordinates were available.
Tie sheets available online?	<ul style="list-style-type: none"> Yes https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838
Percentage of remonumented PLSS corners that have tie sheets available online (whether or not they have corresponding coordinate values)	<ul style="list-style-type: none"> 100%
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	<ul style="list-style-type: none"> 100%
PLSS corners believed to be remonumented based on filed tie-sheets or surveys, but do not have coordinate values	<ul style="list-style-type: none"> It is estimated to be around 407 per the county surveyor’s office.
Approximate number of PLSS corners believed to be lost or obliterated	<ul style="list-style-type: none"> According to the county surveyor, this item is too vague to report
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)?	<ul style="list-style-type: none"> The county currently indexes the PLSS corners with the Romportl number. There is also a description (e.g. “S ¼ 23-27-11 Dunn County Aluminum Monument”) that accompanies each corner.
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?	<ul style="list-style-type: none"> No
Total number of PLSS corners along each bordering county	254 total; Breakdown as follows; Barron 49; Chippewa 51; Eau Claire 27; Pepin 49; Pierce 25; St. Croix 52; Polk 1;
Number and percent of PLSS corners remonumented along each county boundary	Barron 49 or 100%; Chippewa 51 or 100%; Eau Claire 27 or 100%; Pepin 49 or 100%; Pierce 25 or 100%; St. Croix 51 or 98%; Polk 1 or 100%
Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates	Barron 30 or 61%; Chippewa 35 or 69%; Eau Claire 17 or 63%; Pepin 41 or 84%; Pierce 25 or 100%; St. Croix 48 or 92%; Polk 1 or 100%

Custodian

- Under the direction of Thomas P. Carlson, P.L.S. (Dunn County Surveyor)
- The Survey Division is part of the Dunn County Environmental Services Department. The County Surveyor reports to the County Administrator and to the governing Planning, Resources and Development Committee.
- Duties Include those referenced within Wi. State Statute §59.45)
- Serves as a member of the Land Information Council

Maintenance

- Under the direction of Thomas P. Carlson, P.L.S. (Dunn County Surveyor)
- There are 2 main categories of the PLSS remonumentation program.
 - Setting new corners that have not been remonumented since the original GLO survey (this is an ongoing process within the county surveyor's office. The county surveyor's office is responsible for designating which area, and when any original remonumentation projects will occur.)
 - Maintaining the corners that have been re-set. This is a collaboration between the private surveyors that work in Dunn County, and the county surveyor's office staff. Note that when Chapter AE-7, of the administrative code, was re written in 2016, the new language mandated that the private surveyor maintains any PLSS corner that affects the survey he or she is working on. This has taken some of the onus off of the County Surveyor's office to keep these corners maintained. There has been a very noticeable increase in the amount of maintenance tie sheets that have been filed since this AE-7 re-write was implemented in 2016.

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 (Dunn County does not use this standard.)
 - **APPROXIMATE** – point precision within 5 meters or coordinates derived from public records or other relevant information (There may be occasions when this method/standard is needed in the event that there are no SURVEY GRADE coordinates available for parcel mapping and/or remapping in a certain area. The Dunn County Surveyor's Office does not supply these positions to the State Cartographer's Office for inclusion into the PLSS Finder application.)

Other Geodetic Control and Control Networks

e.g., HARN, Height Mod., etc.

Layer Status Maintenance Phase

HARN Layer Status	
Name	Status/Comments

Total number of HARN Stations originally set by the County in 1993.	109
Total number of HARN Stations that are still existing and usable	96
Total number of Height modernization Stations originally set by the State in 2012	76 (26 could be used as HARN Stations)
Total number of Height modernization Stations that are still existing and usable	76 (26 could be used as HARN Stations)
HARN stands for High Accuracy Reference Network	Normally brass caps in concrete with orange posts guarding the monument

Custodian

- Under the direction of Thomas P. Carlson, P.L.S. (Dunn County Surveyor)

Maintenance

- These geodetic reference stations serve a variety of purposes. The Dunn County Surveyor's Office will occasionally designate time and resources to check in on these monuments, and perform any clearing, posting etc., as needed.
- Since the inception of the Wisconsin Continually Operating Reference System (CORS) network was expanded to this side of the state, the use for these HARN stations has gradually subsided.

Standards

- The Wisconsin State Cartographer's Office has created, and maintains, a survey control finder application for these, and other available, monuments. The metadata for each individual control point can be obtained through this site.
- (<https://maps.sco.wisc.edu/surveycontrolfinder>)

Parcel Mapping

Parcel Geometries

Layer Status Maintenance Phase

- **Progress toward completion/maintenance phase:** The Dunn county-wide parcel layer is in a maintenance phase, with several identified obstacles to be addressed before the parcel fabric can be considered cadastral quality. In Dunn County, 100% of the county's parcels are available in a commonly-used digital GIS format.
- **Projection and coordinate system:** Although the Dunn County parcel layer is built and maintained within the NAD_1983_HARN_WISCRS_Dunn_County_Feet, in house, it is submitted to the state parcel mapping project in their designated NAD_1983_HARN_Wisconsin_TM system. (meters)
- **Integration of tax data with parcel polygons:** The county does not have a parcel polygon model that directly integrates tax/assessment data as parcel attributes. The county however, has the ability to export a text file of tax/assessment data, and join that table to the polygon features based on PIN.
- **Online Parcel Viewer Software/App and Vendor name:**
Beacon – hosted, implemented, and maintained by Schneider Geospatial.
(<https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838>)
- Unique URL path for each parcel record:
Yes. There are two URLs that can be utilized to link directly to a parcel record

Via Beacon :

[https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838&Q=1915048409&KeyValue=\[insert PIN number\]](https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838&Q=1915048409&KeyValue=[insert PIN number])

(ex.
<https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838&Q=1915048409&KeyValue=1704222714073300004>)

Via GCS:

[https://dunnportal.co.dunn.wi.us/GCSWebPortal/Search.aspx?ParcelNumber=\[insert PIN number\]](https://dunnportal.co.dunn.wi.us/GCSWebPortal/Search.aspx?ParcelNumber=[insert PIN number])

(ex. <https://dunnportal.co.dunn.wi.us/GCSWebPortal/Search.aspx?ParcelNumber=1704222714073300004>)

Custodian

- Our current process requires the Land Information Officer and the GIS specialist to administer and maintain the polygon and PIN numbering elements of the parcel polygon fabric utilizing Esri products. The Real Property Lister is responsible for the tax/assessment data maintenance within our Catalis Land Nav software suite (formerly known as GCS).

Maintenance

- **Update Frequency/Cycle.** In house parcel polygons are updated usually daily, but at a minimum weekly. Updating may be triggered by a number of circumstances including, but not limited to, identified corrections needed, (phone calls, internal requests, walk in landowners and the like) splits, combinations, new parcel additions, and adjustments resulting from survey and remonumentation activities.

This polygon layer, which is then supplied to our website hosting vendor Schneider Geospatial is normally updated on a bi-weekly basis, or more frequently if necessary. The assessment and ownership information is updated nightly.

Standards

- **Data Dictionary:** The Land Information Officer maintains documentation related to fields within the parcel dataset, however much of the parcel tax and assessment information is stored within the assessment system and joined to the parcel layer on a regular basis. Metadata for this tax assessment detail is provided by our software vendor, Catalis.

Parcels Without Land Value

Layer Status

- **Number of parcels without a land value recorded to-date:** 0 as of 8/9/2024
- **County geolocates/maps parcels for improvements only and without a land value by:** When a document is eventually recorded, we intend to create a new polygon representation of the improvement, and stack it on top of the real estate property.

Assessment/Tax Roll Data

Layer Status

- **Progress toward completion/maintenance phase:** N/A
- **Tax Roll Software/App and Vendor name:** Catalis (formerly known as LandNav/GCS) **Property Assessment & Tax Billing Module** – Catalis (formerly known as LandNav/GCS)
- **Municipal Notes:** NA

Custodian

- The land information office produces and maintains the properties within the assessment roll. This is primarily the work of the real property lister within that section. Municipal assessors update the assessed values for the properties within the assessment roll.
- The tax billing and collection is administered by the Dunn County Treasurer's Office, in conjunction with the land information section.

Maintenance

- **Maintenance of the Searchable Format standard:** To maintain the Searchable Format standard, the county utilizes functionality through the land records management software and then reviews and refines the data in the extract, as it does not fully meet the standard.

- **Searchable Format Workflow:**
- The county maintains parcel/tax roll data in such a way that requires significant formatting every year—whether by the county staff in-house, or a third-party contractor/vendor. Although the export from the land records management software has improved, there are still some aspects of this export that fall short of the standard, requiring a fair amount of review and revision.

Standards

- Wisconsin Department of Revenue Property Assessment Manual (WPAM) and attendant DOR and DOA standards
- DOR XML format standard requested by DOR for assessment/tax roll data

Non-Assessment/Tax Information Tied to Parcels

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

Non-Metallic Mining Sites

Layer Status Maintenance Phase

- Dataset containing all permitted non-metallic mining sites and status.

Custodian

- Dunn County Land & Water Conservation

Maintenance

- Dunn County Land & Water Conservation makes adjustments to this dataset as needed to reflect changes in status and site details.

Standards

- Permitting standards as dictated by local, state and federal ordinances and policies.

Conservation Reserve Enhancement Program (CREP) Perpetual Easements

Layer Status Maintenance Phase

- Dataset containing boundaries for lands enrolled in CREP

Custodian

- Dunn County Land & Water Conservation

Maintenance

- Dunn County Land & Water Conservation makes adjustments to this dataset as needed to reflect changes in status.

Standards

- Standards as dictated by local, state and federal ordinances and policies.

ROD Real Estate Document Indexing and Imaging

Layer Status

- **Grantor/Grantee Index:**

The Grantor/Grantee index is available online beginning in 1973.

- **Tract Index:**

A computerized tract search is available beginning January 1, 2000. The manual tract indexes are available online as well. All documents are indexed using a PLSS based system. In 2019, the PIN # was added as a searchable field on conveyance documents by indexing the PIN #s from the electronic real estate transfer return.

- **Imaging:**
Dunn County continues to digitize and permanently store every document recorded. Document images, including Plats and CSMs are available by Volume/Page # and/or Document # starting with the first recorded document in 1857.
- **ROD Software/App and Vendor Name:** Land records software provided by Fidar Technologies. AVID is the receipting/recording software. Laredo and Tapestry are utilized for searching.
- **Custodian**
County Register of Deeds
- **Maintenance**
The Dunn County Register of Deeds Office is staffed with the Register of Deeds along with one full time Deputy Register of Deeds and two part time Deputy Register of Deeds.

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 Layer Complete

- **Most recent acquisition year:** 2019
- **Accuracy:** USGS Quality Level 2
- **Post spacing:** 0.7 meters
- **Contractor's standard, etc.:**
- **Next planned acquisition year:** Tentatively planned for 2029 or 2030 depending on financial status. The county strives to acquire LiDAR on a 10-year cycle depending on available grants, costs and needs.
- **QL0/QL1/QL2 acquisition plans:** Dunn County intends to acquire QL2 LiDAR data and the same derivatives as acquired in 2019/2020 depending on finances.

Custodian

- Dunn County Land Information Office

Maintenance

- The data is static therefore there is no maintenance scheduled.

Standards

- National Geospatial Program LiDAR based specification Version 1.2
- USGS Quality Level 2

LiDAR Derivatives

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

Layer Status Layer Complete

- All derivatives were flown in 2019 and delivered in 2020. These include 1 foot contours; Bare earth models; Breaklines; Culverts; Hydro-enforced DEM; Hillshade; Intensity Images; and the Raster DEM

Custodian

- Dunn County Land Information Office

Maintenance

- Not required; Static dataset that is backed up on a regular basis

Standards

- In conjunction with the USGS 3DEP LiDAR project as processed by Ayers Associates.
- National Geospatial Program LiDAR based specification Version 1.2
- USGS Quality Level 2

Other Types of Elevation Data

Layer Status **Layer Complete**

- 2 foot, 10 foot contours, and 5 foot DEM derived from 2007 LiDAR project both in shapefile format and autocad (.dwg) format. Lines are 3D polylines with attributes.

Custodian

- Dunn County Land Information Office

Maintenance

- Not required, static dataset that is backed up on a regular basis

Standards

- Mapping accuracy meets FEMA Appendix A Specifications for LIDAR Flood Plain Surveys with vertical accuracy standards of +/- 18.5 cm.

Orthoimagery

Orthoimagery

Layer Status **Layer Complete**

- **Most recent acquisition year:** 2023
- **Resolution:** 0.5'

Contractor's standard: Ayres Associates provided Dunn County, Wisconsin with digital, 3 and 4-band orthoimagery services in 2023 as part of WROC. Aerial imagery was collected in April of 2023 in a manner to support 0.5 foot ground sample distance (GSD) orthoimagery to meet ASPRS Class II horizontal accuracy specifications at 1" = 100' map scale. The 6-inch pixel orthoimagery was produced to meet or exceed a horizontal accuracy of 1.4 feet RMSE according to ASPRS Positional Accuracy Standards for Digital Geospatial Data.

- **Next planned acquisition year:** 2026

Custodian

- Dunn County Land Information Office

Maintenance

- This is a static dataset that is backed up on a regular basis

Standards

- See contractor's standard section above

Historic Orthoimagery

Layer Status **Layer Complete**

- Dunn County keeps the following aerial photos on a backup server for unique and special instances. (Those marked with an asterisk (*) are available to view on the GIS public web site.)
- 2020 6" spring leaf off color* (Dunn County procurement)
- 2017 6" spring leaf off color* (Dunn County procurement)

- 2015 NAIP 1-meter color*
- 2012 DNR fall 18" color photo*
- 2007 6" color early summer leaf on photo* (Dunn County procurement)
- 2004 12" black and white spring leaf off photo* (Dunn County procurement)
- 2002 NDOP 1-meter black and white*
- 1991 USGS 1 meter black and white photo*

Custodian

Dunn County Land Information Office

Maintenance

These static datasets are backed up on a regular basis

Standards

Standards vary for each individual photo

Other Types of Imagery

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

Layer Status

- None

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Address Points and Street Centerlines

Address Point Data

Layer Status Maintenance Phase

- Complete and current.

Custodian

- Dunn County Land Information Office

Maintenance

- This dataset is modified at the very least weekly if not daily. The Dunn County Land Information Office administers the rural addressing program which covers all unincorporated communities (Towns). Incorporated communities relay updated addresses and street information as needed. This dataset is underwent significant changes with the adoption of NENA and Wisconsin GIS NG9-1-1 Data Standards. More changes are anticipated with the transition to NG9-1-1.

Standards

- Chapter 23 uniform system for numbering properties and principal buildings in Dunn County, adopted in September of 2009.
- Wisconsin GIS NG9-1-1 Data Standard

Building Footprints

Layer Status Maintenance Phase

- Acquired in 2022 leveraging 2019 LiDAR data and 2020 aerial imagery collection

Custodian

- Dunn County Land Information Office

Maintenance

- As needed, generally following aerial imagery collection

Standards

- NA

Other Types of Address Information

e.g., Address Ranges

Layer Status

- Address ranges are maintained as part of the centerline dataset

Custodian

- Dunn County Land Information Office

Maintenance

- As needed

Standards

- Wisconsin GIS NG9-1-1 Data Standard

Street Centerlines

Layer Status Maintenance Phase

- Centerline layer is complete and current. This dataset is attributed in accordance with our 911 dispatch system standards as well the Wisconsin GIS NG9-1-1 Data Standard
- Significant changes to this dataset occurred in 2022/2023 in preparation for a transition to NG9-1-1

Custodian

- Dunn County Land Information Office

Maintenance

- This dataset is modified at the very least weekly if not daily. This dataset underwent significant changes with the adoption of NENA and Wisconsin GIS NG9-1-1 Data Standards. More changes are anticipated with the transition to NG9-1-1.

Standards

- Chapter 23 uniform system for numbering properties and principal buildings in Dunn County, adopted in September of 2009.
- Wisconsin GIS NG9-1-1 Data Standard

Rights of Way

Layer Status 65% complete

- Dunn county COGO'es in all transportation plats where fee title interests are acquired.
- Right of ways dedicated as part of the platting process are also mapped and assigned a Parcel ID
- As part of the past plan, much work has been done correcting the geometries of past fee title right of way interests

How Maintained:

- Fee title right of way interests and dedicated rights of way are mapped as part of the parcel layer with a parcel type if ROW. Parcel IDs are assigned to fee title right of way parcels since the early 2000s.

Custodian

- Dunn County Land Information Office
- The Dunn County Surveyor's office and Highway Commissioner also maintain a tabular index of transportation plats

Maintenance

- Newly recorded fee right of way interests acquired through a transportation plat are mapped as part of the parcel layer, however a separate layer is also maintained to better facilitate county processes outside of tax and assessment.
- Much work still lies ahead with this dataset. The original constructors of the parcel map appear to have assumed right of way extents and often did not associate the geometries with the corresponding Parcel ID in the assessment system. Remapping these areas takes quite a bit of research reviewing transportation plats, corresponding deeds, and assessment records. This research often results in communications with a myriad of stakeholders such as the roadway authority, county surveyor, municipal assessor, and landowner. The communication-heavy remapping efforts largely are a result of old county highway projects where a prior real property lister did not process the fee interest conveyances properly, or at all. The main remapping focus has been on county highways, and will be followed by state and federal roadways.
- It should be noted, right of way interests defined on older subdivision plats (pre-1980) are commonly not assigned a Parcel ID. Parcel IDs are assigned on these as needed, or a Parcel Type of ROW is assigned.

Standards

- No specific standards on this layer

Trails

e.g., **Recreational Trails, Snowmobile Trails**

Layer Status Maintenance Phase

- The DNR trails in Dunn County (Red Cedar, Chippewa River, Stokke and Hoffman Hills Trails) are mapped and attributed (Mile marker posts) as part of the Dunn County transportation layer described above.
- An ATV layer does exist for county highways however data for routes along municipal roads is limited.
- The Dunn County Land Conservation Division, in collaboration with area snowmobile associations, also maintain a snowmobile layer that changes often throughout each snowmobiling season.

Custodian

- Recreational – Dunn County Land Information
- ATV Trails – Dunn County Highway Department
- Snowmobile Trails – Dunn County Land Conservation, with the support of the Land Information Office

Maintenance

- GIS/LIO staff maintains this layer. These trails do not change significantly over the course of time, so there is not a lot of maintenance needed here. If any new trails are added, they will be updated on the transportation layer as needed.

Standards

- No specific standards on this layer

Land Use

Current Land Use

Layer Status Maintenance Phase

- The Planning & Zoning Division collaborated with a consultant in 2022 to develop a current land use dataset. While this layer is complete, additional modifications are expected as the county undergoes a revision of the County Comprehensive Plan in the coming couple of years.
- Outside of this layer, land cover datasets developed by outside parties are heavily leaned on as well such as the Wiscland datasets made available through the Wisconsin DNR.

Custodian

- Dunn County Planning & Zoning
- Dunn County Land Information (storage and technical resource)

Maintenance

- Updated as needed in conjunction with updates to the comprehensive plan or updates aerial imagery.

Standards

- No specific standards.

Future Land Use

Layer Status In Development

- Dunn County Planning & Zoning department, in collaboration with the West Central Wisconsin Regional Planning Commission (WCWRPC) will be developing this dataset as part of the update to the County Comprehensive Plan in the next couple of years.

Custodian

- Dunn County Planning & Zoning Department
- Dunn County Land Information (technical & future maintenance support)

Maintenance

- Following the development of this layer, adjustments may be made to this layer as part of adjustments to the Dunn County Comprehensive Plan.

Standards

- s. 66.1001, Wis. Stats. Comprehensive planning.
- Future land use maps are typically created through a community's comprehensive planning process.
 - If a future land use map is created as part of an adopted comprehensive plan(s), then it can be assumed to meet the standards in s. 66.1001
 - According to s. 66.1001, beginning on January 1, 2010, if a town, village, city, or county enacts or amends an official mapping, subdivision, or zoning ordinance, the enactment or amendment ordinance must be consistent with that community's comprehensive plan.
 - 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.

Custodian

- Dunn County Planning & Zoning - responsible for the administration and enforcement of the zoning code
- Dunn County Land Information Office – GIS data maintenance

Maintenance

- Zoning districts are adjusted on the parcel level as needed (post successful rezone process).
- Data is maintained on the parcel within the assessment system and then joined to the GIS parcel layer.

Standards

- Please refer to the Dunn County comprehensive zoning ordinance (Chapter 13) available on the main Dunn County web page

Shoreland Zoning

Layer Status **85% Complete**

- The County does maintain a GIS representation of county shoreland zoning boundaries.
- While this layer does exist, the Planning & Zoning division relies on the older USGS quadrangle maps and current aerial imagery to determine if shoreland zoning is present.
- Revisions were made to the hydrology layer as part of the prior plan, so updates to this layer are expected in the coming years depending on the availability of Planning & Zoning Staff resources.

Custodian

- Dunn County Planning & Zoning (enforcement and determinations)
- Dunn County Land Information

Maintenance

- Shoreland zoning data is maintained as needed.
- Updates anticipated following updates to the hydrology datasets

Standards

- Please review the Shoreland Protection Ordinance (Chapter 14) available in the Ordinances section of the Dunn County website. <https://dunncountywi.gov/ordinances>

Farmland Preservation Zoning

Layer Status

- Administered by county land conservation department in GIS format.
- Mapping of participating townships available via Wisconsin DATCP website (<https://datcpgis.wi.gov/maps/?viewer=fpp>)
- **Year of certification:** Varies by Township (2014-2017)

Custodian

- Dunn County Land & Water Conservation – administration and GIS dataset
- Dunn County Planning & Zoning – collaborative administration

Maintenance

- As needed

Standards

- Wisconsin State Statute Chapter 91 (Farmland Preservation)

Floodplain Zoning

Layer Status **Layer Complete**

- 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.
- 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.

Custodian

- Dunn County Planning & Zoning Office (enforcement and administration of this layer)
- Dunn County Land Information (technical and maintenance support)

Maintenance

- As determinations are completed and approved by FEMA and/or WDNR standards.
- Enforcement and administration of this section is through the Dunn County Zoning Office. See chapter 15, "Dunn County Floodplain Ordinance" for specific details.
- OFFICIAL MAPS & REVISIONS

The boundaries of all floodplain districts are designated as floodplains or A-Zones on the maps listed below and the revisions in the Dunn County Floodplain Appendix. Any change to the base flood elevations (BFE) in the Flood Insurance Study (FIS) or on the Flood Insurance Rate Map (FIRM) must be reviewed and approved by the DNR and FEMA before it is effective. No changes to regional flood elevations (RFE's) on non-FEMA maps shall be effective until approved by the DNR. These maps and revisions are on file in the office of the Dunn County Zoning Administrator, Dunn County, WI. If more than one map or revision is referenced, the most restrictive information shall apply.

Standards

- FEMA standards
- Wisconsin DNR regulations
- Dunn County Zoning Ordinance number 15 (Dunn County Floodplain Ordinance.)

Airport Protection

Layer Status **Layer Complete**

- Not administered by county.
- The county does maintain (in conjunction with the City of Menomonie) a GIS representation of airport protection zoning boundaries
- **Airport protection zoning map depicts:**
 - Height limitation restrictions (City would enforce their interests, and the County would review those potential inclusions into this zone(s) that fall outside of the City limits. (Note: extraterritorial zoning also applies 1.5 miles beyond the City limits so there may be some approving and objecting authority given those criteria.)
 - General zoning overlay for airport protection (City would enforce their interests, and the County would review those potential inclusions into this zone(s) that fall outside of the City limits. (Note: extraterritorial zoning also applies 1.5 miles beyond the City limits so there may be some approving and objecting authority given those criteria.)

- Other: Airport protection boundary falls into 4 different jurisdictions; City of Menomonie (actual airport and runways are in the City limits;) Town of Menomonie, Town of Red Cedar and a small portion of the Town of Spring Brook.

Custodian

- City of Menomonie
- Dunn County Land Information (when requested)

Maintenance

- The layer is static and is not usually updated. The City of Menomonie maintains this layer and the County has acquired a copy to review and protect those interests outside of the city limits.

Standards

- FAA
- City Zoning
- County Zoning

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

- Not administered or maintained by the County.
- All non-county zoned Towns, Villages, and the City of Menomonie administer and maintain their own representation of the zoning classifications.
- Some City of Menomonie zoning information does exist within the tax and assessment system; however, it is not actively maintained. The County would like to collaborate with the city to display their zoning information on the public facing GIS site.
- Dunn County did work with the Village of Wheeler in 2024 to develop a GIS representation of zoning classifications.

Custodian

- Non-County zoned Towns
- Incorporated municipalities
- Dunn County Land Information Office (when requested)

Maintenance

- Updates occur as needed and directed by the municipality.

Standards

- Dunn County comprehensive zoning ordinance (Chapter 13)
- Zoning standards as defined by incorporated available on the main Dunn County web page. The City of Menomonie and each Village may have their own standards for zoning.

Administrative Boundaries

Civil Division Boundaries

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

Layer Status Maintenance Phase

- Dunn County maintains mapping for the county boundary and all minor civil divisions.

Custodian

- Dunn County Land Information Office

Maintenance

- Updated as annexations or boundary agreements occur. Also revised when updated remonumentation or survey data becomes available.
- A concerted effort to review all municipal boundaries against their last recorded descriptions and descriptions of record at WiDOA occurred in 2022/2023 in preparation for NG9-1-1.

Standards

- Wisconsin Legislative Technology Services Bureau
- Parcel mapping standards; descriptions of record.

School Districts

Layer Status Maintenance Phase

- **Progress toward completion/maintenance phase:** Dunn County has created a School District layer.
- **Relation to parcels:** School district codes are linked to each parcel within the tax and assessment system.
- **Attributes linked to parcels:** "School District Number" and "School District" are associated within each parcel.

Custodian

- Dunn County Land Information Office

Maintenance

- As needed. To date notice of any changes to school district boundaries (consolidation/attachment/detachment) has not been communicated by WiDPI or the County Clerk since 2016. Our hope that Department of Public Instruction would someday be able to provide our county with a map that they believe is accurate and assist us with any imperfections that may exist in this layer. Or adopt a boundary layer and move forward from there.
- Occasionally we consult with an individual school district official or WiDPI when a unique issue or problem occurs.

Standards

- Parcel mapping standards.

Election Boundaries

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

Layer Status Maintenance Phase

- The County does manage a GIS representation of the municipal wards and polling locations

Custodian

- The Dunn County Land Information Office

Maintenance

- Updates occur to ward boundaries as a result of annexations or boundary agreements occur, or as revised remonumentation or survey data becomes available.
- Ward data also updated as part of the local redistricting process.
- Polling location is updated per municipal or County Clerk communications

Standards

- Municipal Wards: Legislative Technology Services Bureau data model
- Polling locations are an internal point layer that we maintain for informational purposes

Utility Districts

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

Layer Status

- Dunn County does not have utility district layers available at this time

Custodian

- N/A

Maintenance

- Dunn County Utilizes Electric and Gas layers from the Public Service Commission for reference within the Emergency management system
- Dunn County will also request GIS data directly from the service provider for emergency management purposes.

Standards

- N/A

Emergency Service Boundary-Law/Fire/EMS

Layer Status **Law Enforcement is in Maintenance Phase**

- The County does manage a GIS representation of a law enforcement layer

Layer Status **Fire is in Maintenance Phase**

- The County does manage a GIS representation of a jurisdictional fire boundary layer

Layer Status **EMS is in Maintenance Phase**

- The County does manage a GIS representation of a jurisdictional EMS boundary layer

Custodian

- Dunn County Land Information Office (GIS representation)
- Emergency Management Director (communication of changes or needed adjustments)
- Responding agencies (communication of changes or needed adjustments)

Maintenance

- Adjusted as needed in light of annexations, or adjustments/changes is responding agencies as communicated by the E911 director or emergency service provider.
- Adjustments made to accommodate NG9-1-1 needs. More changes anticipated as the transition progresses.

Standards

- As defined by computer aided dispatch system provider
- Wisconsin GIS NG9-1-1 Data Standard

Public Safety Answering Points (PSAP) Boundary

Layer Status **Maintenance Phase**

- The County does manage a GIS representation of the PSAP. It is the same as/coincident with the county boundary.

Custodian

- The Dunn County Land Information Office

Maintenance

- Adjustments made as needed.
- Recent adjustments made to accommodate NG9-1-1 needs. More changes anticipated as the transition progresses

Standards

- Wisconsin GIS NG9-1-1 Data Standard

Provisioning Boundary

Layer Status **Maintenance Phase**

- The County developed this layer to support NG9-1-1 data needs.

- Additional adjustments anticipated as transition to NG9-1-1 progresses.

Custodian

- Dunn County Land Information
- Dunn County Emergency Management

Maintenance

- Adjustments made as needed.

Standards

- Wisconsin GIS NG9-1-1 Data Standard (Provisioning Boundary)

Other Public Safety e.g. Healthcare Facilities

Layer Status

- **Critical Facilities:** Maintenance Phase
 - Healthcare Facilities are included within this dataset. Data was originally developed with the support of the regional planning commission, but maintenance has transitioned to Dunn County
- **Off-Site Locations:** Data was originally developed with the support of the regional planning commission, but maintenance has transitioned to Dunn County

Custodian

- Dunn County Emergency management
- Dunn County Land information Office

Maintenance

- Maintenance occurs as needed either through known changes in the community or in response to updates relayed by the Emergency Management Director and/or team.

Standards

- No specific standards

Lake Districts

Layer Status: 50% Complete

- Dunn County has two lake districts: Tainter Lake District and the Elk Creek Lake Rehabilitation District.
- Mapping is available for the Tainter Lake District; however, mapping needs to be developed for the Elk Creek Lake Rehabilitation District. This is a planned project for this Land Information Plan.
- Intend to leverage district information from tax/assessment records, parcel mapping, and the legal description of record to develop the remaining lake district boundary.

Custodian

- Dunn County Land Information

Maintenance

- As needed per amendments recorded at the Register of Deeds office.

Standards

- No specific standards

Native American/Tribal Lands

Layer Status

- Dunn County does not have a Native American GIS layer

Custodian

- N/A

Maintenance

- N/A

Standards

- N/A

Other Administrative Districts

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

Layer Status Maintenance Phase

- Dunn County has a parks and recreation layer developed in conjunction with the Dunn County Planning & Zoning Division as part of the outdoor recreation plan.
- Dunn County has no County forests.

Custodian

- Dunn County Land Information Office
- Dunn County Planning & Zoning Department

Maintenance

- Updated as needed.

Standards

- No specific standards.

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 Maintenance Phase

- The County does manage a GIS representation of the hydrography (polygon for lakes and larger river bodies, and a polyline for streams and narrow rivers.)
- These layers underwent an update following the collection of LiDAR data and aerial imagery collections.

Custodian

- Dunn County Land Information Office

Maintenance

- Updated as needed in light of updated imagery or elevation data.

Standards

- No specific standards, although additional attributes have been added to support integration with DNR datasets.

Cell Phone Towers

Layer Status Maintenance Phase

- The County does manage a GIS representation of the wireless cell tower locations

Custodian

- Dunn County Land Information Office

Maintenance

- Updated as needed leveraging information from zoning authorities, FCC data, aerial imagery, and Emergency Management.

Standards

- No specific standards.

Bridges and Culverts

Layer Status

- **Culverts:** Maintenance Phase
- The County does manage a GIS representation of culverts.
- Initially developed with the support of contractors leveraging information from 2019 LiDAR data and aerial imagery.

Custodian

- Dunn County Highway Department

Maintenance

- The Dunn County Highway Department and/or the Dunn County Land Information Office will update this layer as needed.
- Dunn County hopes to develop a good process for municipalities to relay updated culvert information as well in conjunction with their driveway permitting processes or road construction projects

Standards

- No specific standards outlined, but information leveraged from WisDOT culvert inventory

Layer Status

- **Bridges:** Maintenance Phase
- The County does manage a GIS representation of culverts.

Custodian

- Dunn County Highway Department

Maintenance

- Updated as needed.

Standards

- No specific standards outlined

Other

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

Layer Status Maintenance Phase

- Dunn County does maintain GIS representations of the following layers:
Public boat landings; Cemeteries, Points of Interest, Mile marker posts (I94 and US Hwy 12/29), Platted subdivisions, Zip code, PLSS corners, PLSS framework (Town, Range, Section, Quarter, Quarter-Quarter, Gov Lot), Supervisory districts, Depth to ground water, Ground water recharge, Water table elevation, 1, 2 and 10 foot contours, Bedrock geology and Depth to bedrock.

Custodian

- Dunn County Land Information Office

Maintenance

- Updated as needed.

Standards

- Standards will vary for each individual dataset. Mostly these were generated in house using any number of geospatial creation methods.

Manure Storage Sites

Layer Status Maintenance Phase

- Dataset containing permitted manure storage sites and status.

Custodian

- Dunn County Land & Water Conservation

Maintenance

- Dunn County Land & Water Conservation makes adjustments to this dataset as needed.

Standards

- Permitting standards as dictated by local, state and federal ordinances and policies.

Conservation Practices Installed

Layer Status Maintenance Phase

- Dataset containing conservation practices installed since 2016. These practices are installed to correct an erosion or other resource concern and are typically tied to a 10-year maintenance agreement.

Custodian

- Dunn County Land & Water Conservation

Maintenance

- Dunn County Land & Water Conservation makes adjustments to this dataset as needed.

Standards

- No specific standards.

3 LAND INFORMATION SYSTEM

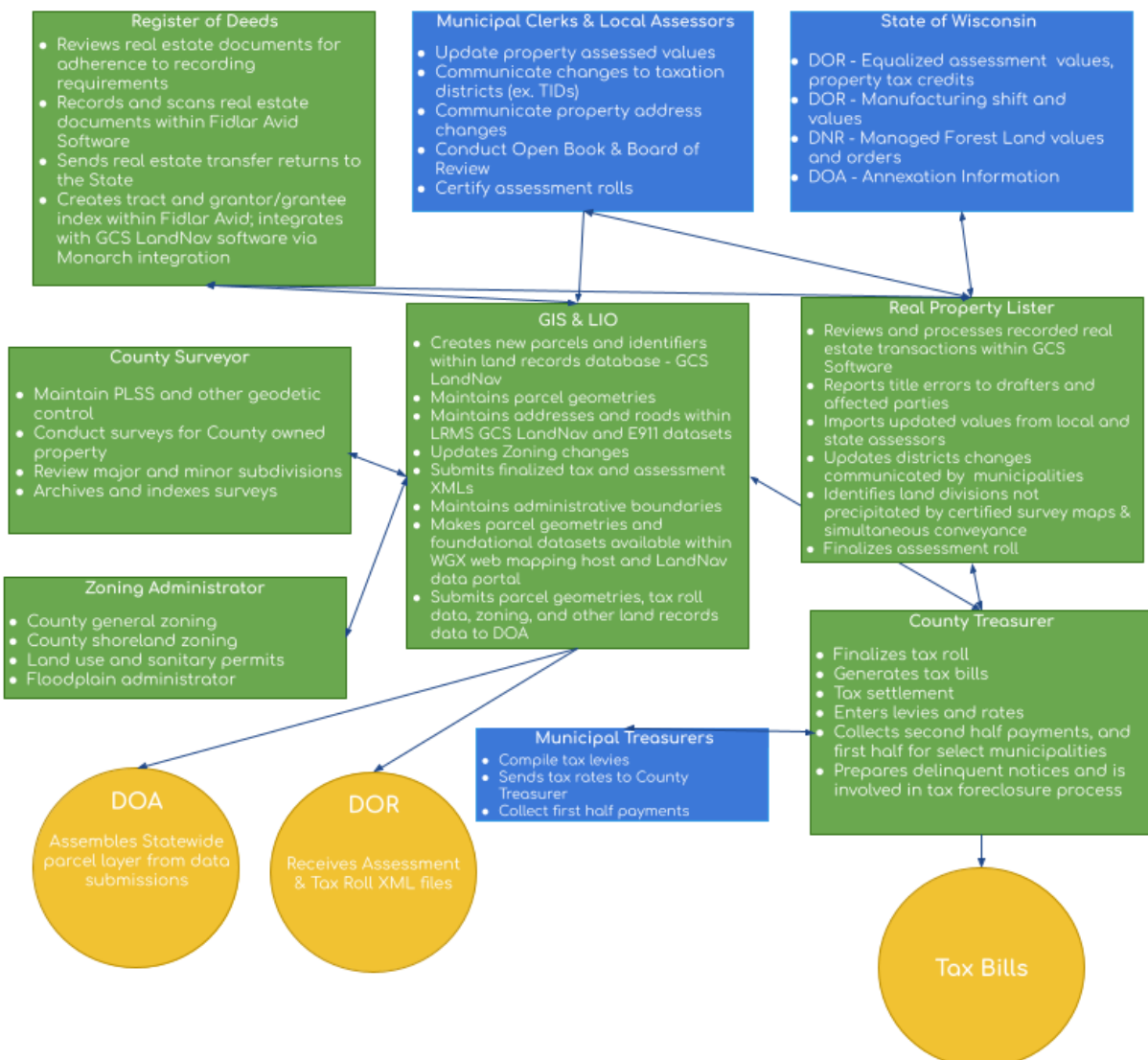
The WLIP seeks to enable land information systems that are both modernized and integrated. Integration entails the coordination of land records to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

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.

This chapter describes the design of the county land information system, with focus on how data related to land features and data describing land rights are integrated and made publicly available.

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

- Virtual servers for hosting tax/assessment/permitting system and public facing web portal
- Virtual servers for hosting working GIS databases and backups
- Computer workstations equipped to accommodate required software including but not limited to ArcGIS Pro and analysis extensions. Computers replaced on a 5-year schedule per county computer replacement policy.
- GNSS GPS Receiver - Trimble R1*
- GNSS GPS Receiver - Trimble R2*
- (2) iPad Tablets to pair with the above GNSS Receivers*
- Large format plotter*
- Large format scanner
- Several departments integral in maintain land information datasets have dedicated GPS units for specific applications.

*Indicates shared resource for land records data custodians to use, managed and maintained by Dunn County Land Information

Software

- Esri ELA: ArcMap, ArcCatalog, ArcGIS Pro, ArcGIS Enterprise, affiliated program extensions
- Fidar Technologies – Laredo Desktop
- Monarch – software integration between Register of Deeds software and Catalis Land Records system
- Carlson Survey
- AutoCAD
- Microsoft 365 suite including PowerAutomate
- Catalis LandNav suite for land records management and permitting system (Formerly GCS)
- **Dunn County currently uses ArcGIS Pro:** Yes (however ArcMap still utilized as well)
- **Dunn County plans to upgrade to ArcGIS Pro:** Yes (fully transition all staff off of ArcMap by January 2026)

Website Development/Hosting

- Schneider Geospatial - primary public facing GIS site, Beacon, is hosted. This site also allows for the searching of maps of survey and tiesheet records
- Esri ArcGIS Online and Portal for hosting web applications along with Survey123 and FieldMaps
- Fidar Tapestry – online availability of recorded document records
- Fidar Laredo Anywhere (will be replacing Laredo Desktop end of 2024)
- Fidar Bastion – external hosting and back up of recorded documents at the Register of Deeds Office

Metadata and Data Dictionary Practices

Metadata Creation

- **Metadata creation and maintenance process:** Metadata creation maintenance and updating is a designated weak spot in the infrastructure of Dunn County's GIS. Currently, we are utilizing older FGDC metadata that was developed when our datasets were first created. The age of this metadata varies from 5-10 years old, dependent on the dataset. As we become more

streamlined and organized within the land records department, we need to allow staff time for, and budget against, the development and maintenance of compliant metadata. Normal work flow would assume that we use the tools within ArcGIS and ESRI software(s) to develop and maintain these metadata datasets. Again, insufficient staff time and expertise is the biggest hurdle we face here.

Metadata Software

- **Metadata software:** ArcCatalog (either standalone or within ArcGIS Pro) is utilized to update metadata on newly developed datasets or frequently maintained and/or published datasets. There are many older datasets of unknown vintages and origins without metadata.
 - 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:** When metadata is created, the standard fields populated are:
 - Overview
 - Item Description: Title, Tags, Summary, Description, Credits, Use limitations,
 - Topics and Keywords: Topic Categories, Theme Keyword, Place Keywords, and
 - Resource Citation: Titles, Presentation Form, and Dates created/published.
 - Resource Citation Contacts: Contacts Manager.
 - Contacts: Contact and Role.
 - Maintenance: Update Frequency.
 - Constraints: General Constraints.
 - Resources:
 - Details: Status and Credit.

Metadata Policy

- **Metadata Policy:** Dunn County does not have a current metadata policy in place at this time.

Municipal Data Integration Process

- **Parcel Information:** Dunn County Land Information maintains all GIS parcel representations. The county Real Property Lister, with the support of the GIS staff, updates parcel information within the Catalis land records management system for all municipalities as well.
- **Parcel assessments:** Annually in January Dunn County Land information sends the assessment roll and supporting documentation of parcel reconfiguration and changes to the assessor for review. Following assessment, the municipal assessor sends updated assessment values to the Real Property Lister for import into the land records management system. From there the values are balanced against the assessor's provided information, and the two parties collaborate on any discrepancies.
- **Property Addresses & Streets:** Incorporated municipalities communicate any changes to property addresses or streets. From there Dunn County Land Information staff integrate the changes into the appropriate GIS datasets as well as the land records management system. The new information is also relayed to the Emergency Management Director for awareness and potential updates within the MSAG.

Public Access and Website Information

Public Access and Website Information (URLs)

Public Access and Website Information

GIS Webmapping Application(s)

Link - URL	GIS Download Link - URL	Real Property Lister Link - URL	Register of Deeds Link - URL
https://beacon.schneidercorp.com/Application.aspx?AppID=1205&LayerID=36350&PageTypeID=1&PageID=13838	None	https://dunnportal.co.dunn.wi.us/GCWebPortal/search.aspx? https://dunncountywi.gov/index.asp?SEC={E332D21E-11FA-40F8-B79B-C15EC61C026D}	https://tapestry.fidlar.com/Tapestry2/Default.aspx https://dunncountywi.gov/rod

Single Landing Page/Portal for All Land Records Data

URL

<https://dunncountywi.gov/landinfo>

Data Sharing

Data Availability to Public

Data Sharing Policy

County Webpage with Link to Statewide Parcel Map (www.sco.wisc.edu/parcels/data)

URL

<https://dunncountywi.gov/index.asp?SEC={6A6130D1-B25A-4816-A95F-9AEDEAE889E}>

- Many of Dunn County's core data sets and foundational layers are available on the County's land records data sales section for a small fee. Datasets can be requested online ([here](#)) or by paper
- Documents recorded within the Register of Deeds Tract Index are available for a cost through the ROD's online document searching and purchasing application Tapestry, or available in person.
- Dunn County will work with educational institutions or non-profits to provide land information freely. A signed data sharing agreement may be requested of the entity.

Open Records Compliance

- Dunn County complies with all open records laws.

Data Sharing Restrictions and Government-to-Government Data Sharing

Data Sharing Restrictions

- Dunn County will work with educational institutions or non-profits to provide land information freely. A signed data sharing agreement may be requested of the entity.
- Any for profit group is asked to submit a land records request for a small fee.

Government-to-Government Data Sharing

- Dunn County will share data with any and all government agencies freely.

Training and Education

- Dunn County utilizes WLIP funding sources to allow staff to attend the Wisconsin Land Information Association annual conference, Wisconsin Land Title Association training as needed, Esri courses, or other program relevant training as needed. It is a priority for the land information office to stay informed and current on technological advances and initiatives and current events within the Land Information community. Our office has been grateful to also receive funding through the general budget procedure to cover the increasing costs associated with training and education.

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.

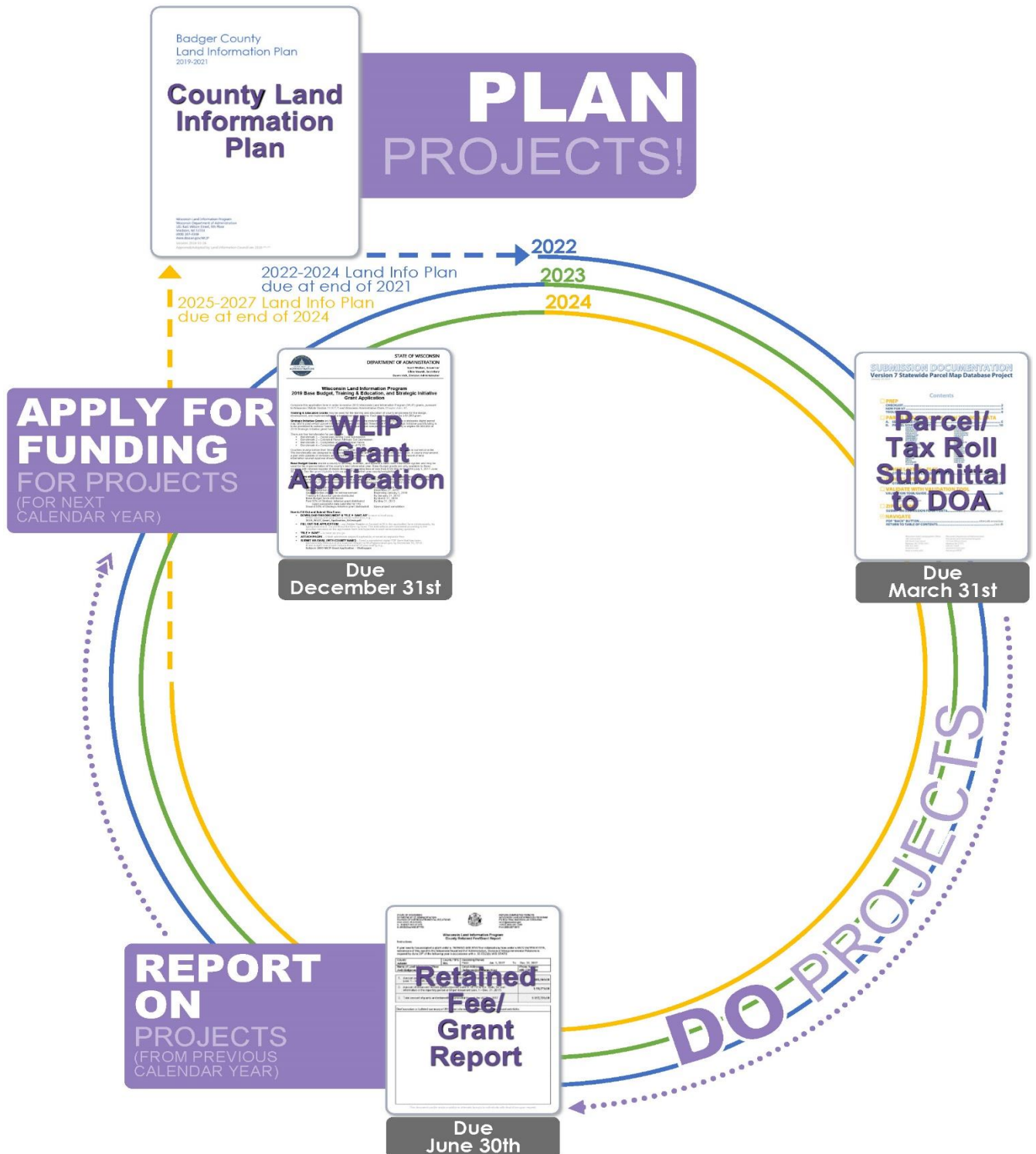


Figure 1. The WLIP Land Information Plan/Grant Project Cycle

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 (Maintenance Phase)

- Dunn County staff will closely follow the submission documentation that is delivered each year by the Wisconsin State Cartographer's Office and the Department of Administration for the statewide parcel mapping project as well as any observation reports. Dunn County will continue to utilize export functionality provided by our tax/assessment software vendor, and further modify the extract to comply with the identified standards. This data will then be joined to parcel layer.
- The Dunn County Land Information Officer will certify that the parcel data meets the standards for Benchmark 1 and 2 upon submission of data.

Business Drivers

- Dunn County will utilize the WLIP strategic initiative grant funding to offset the costs to generate this dataset. Additional funds may be allocated to assist in regular parcel maintenance which feeds into this dataset.

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).
- The WLIP provides an observation report that indicates the success and/or failure of certain elements of this submission.

Project Timeframes

Timeline – Project Plan to Maintain Searchable Format		
Milestone	Duration	Date
Project start	–	January
Gather & format data	Roughly 1 month	January -February
Submit data to WiDOA	–	March 31

Responsible Parties

- Dunn County Land Information Office staff
- Tax/assessment software provider

Estimated Budget Information

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

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

- The Dunn County Surveyor's Office is actively remonumenting new corners, maintaining and gathering GPS data on existing corners, and reviewing the positions of previously established corners in Dunn County. This approach Once all monuments in a township have been reviewed and finalized, those survey grade coordinates, and PLSS line work, are made available to the Dunn County land information staff to integrate into the countywide parcel fabric. Since our parcel fabric was developed, prior to having 100% remonumentation completed, there are numerous inconsistencies and obvious problems with our parcel line work throughout the fabric. As a result the land information team generally completely redraws parcel geometries following property research. Remapping remonumented areas remains a significant focus of the Land Information team and requires a significant amount of time. The land information office continues to collaborate with the Dunn County surveyor's office as it pertains to this benchmark.
- The Dunn County Surveyor's office is fully staffed and budgeted with county levy monies to complete their ongoing portion of this project.

Missing Corner Notes

- **Documentation for any missing corner data:** The Dunn County Surveyor's office keeps a very detailed inventory of each PLSS corner in the county. If a missing corner is identified, thorough research is performed to see why this may be the case, or what the circumstances are related to this specific corner. This also holds true if there is a problem with the current corner at any given position. Certain logic that was used to reset any PLSS corner may be analyzed by survey office staff, and if conditions, and field evidence, dictate it, these questionable corners may be reset based on the evidence obtained. These situations create a "double corner", and they create a unique circumstance as related to the parcel map. We deal with these on a case-by-case basis.)

County Boundary Collaboration

- See [PLSS Layer Status table](#) in Chapter 2.
- The Dunn County Surveyor's office works with each adjoining county surveyor when any PLSS activity is being conducted, including when a boundary PLSS corner is being set and/or in dispute. Tie sheets are shared so that these common corners can be obtained by the general public from either county website.

Business Drivers

- Completion and integration of PLSS will improve the geospatial accuracy of the parcel layer and other county land information system layers
- The Dunn County Surveyor's Office staff (total of 3, County Surveyor, Professional Surveyor and Survey Technician) are fully financed by County levy funds.
- The Dunn County Land Information Office staff will be utilizing the WLIP grant mechanisms to supplement the PLSS integration into the parcel fabric.

Objectives/Measure of Success

- **The objective is to meet Benchmark 4 (Completion and Integration of PLSS) by: 2035**
- **Number of corners to be remonumented and/or rediscovered by 2027: 360**
- **Number to have new coordinates established by 2027: 150**
- **Accuracy class for these new coordinates by 2027: survey-grade**
- **Number of new corner coordinates to be integrated into the parcel fabric by 2027: 360**
- **Number of new tie sheets to be posted online by 2027: 360**

Project Timeframes

Timeline – Project Plan for PLSS (estimated)

Milestone	Duration	Date
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Project start	—	January 1, 2019
Internal County Staff to complete 100% full remon	8 years	January 1, 2019-January 1 2032
GIS staff parcel mapping integrating new PLSS	8 years	January 1, 2019-January 1 2035
Project complete	—	December 31, 2035

Responsible Parties

- The Dunn County Surveyor’s Office
- Dunn County Land Information Office

Estimated Budget Information

- See table at the end of this chapter (for budget information for the planning period 2025-2027).
- **Estimated remaining cost for completion and integration of PLSS (to reach maintenance mode)**
 - **Estimated approximate average cost of remonumentation per corner:** \$500
 - **Total cost of remaining remonumentation:** \$17,500 (35 monuments x \$500)
 - **Total cost of remaining integration of PLSS points into parcel layer:** Estimating \$30,000 annually. *(Difficult to quantify as the delivered monumentation often results in a domino effect of remapping parcels and is not isolated to the newly established positions.)*
 - **Cost of anything else remaining:** \$60,000 annually in performing routine maintenance of the PLSS which can result in the adoption of a new monumented position.
 - **Total remaining cost:** \$287,500

Project #1: Emergency Management Data Development & Maintenance

Project Description

- Emergency management datasets have undergone significant changes with the preparation for a pending NG9-1-1 transition however more changes and maintenance is anticipated. Areas of focus include but are not limited to:
 - Consider developing an access point dataset. This is not a requirement for NG911, but helpful for responders
 - Consider development street alias table
 - Adjustments to integral datasets to support NG9-1-1 routing and synchronization and emergency management operations
 - Identification of multi-unit structures
 - Hydrologic dam shadow display and notification process
- **Land Info Spending Category:** Other (Emergency Management)

Business Drivers

- Emergency management, planning, response preparedness, interoperability, and mitigation
- Community safety and expectation of accurate information
- Statewide NG911 Migration Efforts

Objectives/Measure of Success

- To develop, maintain, and make available accurate County datasets and processes that support Emergency Management operations, and State NG911 requirements
- Update and expand metadata and maintenance documentation.

Project Timeframes

Timeline – Project #1 Emergency Management Data Development		
Milestone	Duration	Date
Project #1 start	–	January 1,2025
Project # 1 complete	ongoing	December 31, 2027

Responsible Parties

- Dunn County Land Information Office
- Dunn County Emergency Management
- Dunn County Information Technology
- County and State technology vendors and consultants

Estimated Budget Information

- See table at the end of this chapter.

Project #2: Aerial Imagery Collection

Project Description

- Dunn County collects aerial imagery through the WROC program and intends to participate again in 2026 to maintain a regular 3-year aerial imagery update. This 3-year schedule was first established in 2017. Accurate and current aerial imagery is utilized and relied upon by a diverse group of both internal and external users. Based on customer feedback, Dunn County intends to collect leaf-off 6" resolution color imagery. This will be a collaborative collection with the City of Menomonie as well. Imagery within the City of Menomonie will be leaf-off 3" resolution color imagery.
- **Land Info Spending Category:** Orthoimagery

Business Drivers

- Land Conservation, Planning & Zoning initiatives
- Support emergency management, forestry, and highway applications
- Accurate base map for parcel mapping and analysis.
- Public access to updated imagery
- Budgetary predictability

Objectives/Measure of Success

- The objective is to regularly acquire and make available current and accurate aerial imagery. The success of this project will be measured through the timely delivery of high resolution orthorectified imagery that is in alignment with the agreed upon specifications.

Project Timeframes

Timeline – Project #2 Aerial Imagery Collection		
Milestone	Duration	Date
Project #2 start	–	Winter 2025
Imagery Acquisition		Spring 2026
Project complete	–	Fall 2026

- The project is anticipated to begin and end in 2025/2026 through participation in the WROC program, but may commence earlier depending on budget and potential funding partners.

Responsible Parties

- The LIO, County land records staff, and selected acquisition partners, will complete this project through a regional imagery collection.

Estimated Budget Information

- See table at the end of this chapter.

Project #3: Editing for Parcel Fabric Accuracy and PLSS Line Work

Project Description

- This is supplemental to the work described in Benchmark 4 and involves the cleanup in parcel and PLSS representations, in addition to rectifying topological errors, and omissions within these GIS datasets. Although similar to Benchmark 4 parcel work, this project allows us to fix, maintain and correct some of the day-today inconsistencies that are found throughout the year. This will be an ongoing effort throughout several Land Information plans.
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- Any consumer of the Dunn County base PLSS and parcel layers
- Internal staff who utilize this information for a variety of projects and services

Objectives/Measure of Success

- To represent tax parcels as accurately as possible per tax/assessment records, documents recorded at the Register of Deeds, and survey and monumentation information.
 - The current parcel layer, originally developed in the early 2000's, is often found to have inaccuracies and incorrect line work. The errors are usually unnoticed until someone is remapping the areas and/or interested in that particular area of the county. We work and repair these inconsistencies on a case-by-case basis and cannot dismiss the amount of staff time that it takes to find solutions to these inconsistencies.

Project Timeframes

Timeline – Project #3 Editing for Parcel Fabric Accuracy and PLSS Line Work		
Milestone	Duration	Date
Project #3 start	–	January 1, 2025
Project complete	–	December 31,2030

- Ongoing through this 3-year cycle

Responsible Parties

- Dunn County Land Information Office staff

Estimated Budget Information

- See table at the end of this chapter.

Project #4: Core System Hardware & Software Upgrades

Project Description

- Several upgrades and/or transitions of core systems are planned for 2025-2027 including:
 - ArcGIS Enterprise system upgrade and migration, also establishment of imagery server.
 - Tax, assessment, and permitting migration to a fully hosted solution. This project is largely funded through county funds, however additional needs are anticipated as the migration progresses.
- **Land Info Spending Category:** Website Development/Hosting Services

Business Drivers

- Technology modernization
- Data integrity, access, and editing needs

- Mobile and field needs of customers

Objectives/Measure of Success

- Implementation of updated hosted core solutions
- Increased access of information for all users of Dunn County land information
- Easier navigation and utilization of core datasets

Project Timeframes

Timeline – 4: Core System Hardware & Software Upgrades		
Milestone	Duration	Date
Project #4 start	–	January 1,2025
Project complete	–	December 31,2027

Responsible Parties

- Dunn County Land Information
- Dunn County departmental stakeholders
- Dunn County vendors

Estimated Budget Information

- See table at the end of this chapter.

Project #5: Web & Mobile Mapping Applications

Project Description

- The need for additional web mapping and field collection functionality continues to increase among our land information stakeholders. For the duration of this plan our focus will be on developing and maintaining mapping applications in house and utilizing outside solutions/vendors where needed. Applications include but are not limited to:
 - Web solution for better retrieval of permitting information
 - Field collection tools for land use, zoning, and highway applications
 - Migrating web applications to Experience Builder due to the deprecation of Web App Builder
 - Web solution for retrieval of surveyor field notes
- **Land Info Spending Category:** Website Development / Hosting Services, Hardware

Business Drivers

- Dunn County departmental stakeholders
- Local governments
- Public interest

Objectives/Measure of Success

- Successful development and deployment of functional, robust, and user-friendly applications to customers.

Project Timeframes

Timeline – Project #5 Web & Mobile Mapping Applications		
Milestone	Duration	Date
Project #5 start	–	January 1, 2025
Project complete	–	December 31,2027

Responsible Parties

- Dunn County Land Information
- Dunn County departmental stakeholders
- Dunn County vendors where applicable

Estimated Budget Information

- See table at the end of this chapter.

Project #6: Mapping of Special Taxing Jurisdictions

Project Description

- Develop spatial datasets representing special taxing jurisdictions such as TID districts, drainage districts, sanitary districts, lake districts, and business districts. Following the development of these datasets, the intention is to display this information on our primary GIS website, but there may be the need to develop specific applications. Much of this information can be retrieved from the tax and assessment system, however coordination with municipalities, and potentially the Department of Revenue, will be needed to retrieve information on older TID districts where information is limited. Comparison between the assessment records and available district documents will also occur.
- **Land Info Spending Category:** Other Parcel Work

Business Drivers

- Public Interest
- Local governments
- Dunn county departmental stakeholders

Objectives/Measure of Success

- The development representative taxing district datasets
- Easy retrieval and access of district information for internal and external users

Project Timeframes

Timeline – Project #6 Mapping of Special Taxing Jurisdictions		
Milestone	Duration	Date
Project #6 start	–	Spring 2026
Project complete	–	December 31,2027

Responsible Parties

- Dunn County Land Information
- Dunn County municipalities

Estimated Budget Information

- See table at the end of this chapter.

Project #7: Right-of-Way Development

Project Description

- Progress has been made on mapping county and several state highway right of ways, as outlined in previous plans; however, more work is needed to map the remaining county, state, and federal right of ways. As mentioned in the foundational datasets section, we have identified that oftentimes the parcel mapping conducted by past contractors for deeded rights-of-way are not accurately represented per the transportation plats or deeded legal descriptions. Some are not represented at all in either the mapping or assessment database as well. Resolving these issues is a time-consuming process.
- **Land Info Spending Category:** Administrative Activities and Management

Business Drivers

- Dunn County Highway Division

- Dunn County Planning & Zoning
- External land records professionals
- Public interest
- Parcel mapping accuracy

Objectives/Measure of Success

- To create and identify and accurately map current rights-of-way

Project Timeframes

Timeline – Project #7 Right-of-Way Development		
Milestone	Duration	Date
Project #7 start	–	January 1, 2025
Project complete	–	December 31,2027

Responsible Parties

- Dunn County Land Information Office staff

Estimated Budget Information

- See table at the end of this chapter.

Project #8: ArcGIS Pro Migration

Project Description/Goal

- Provide ArcGIS Pro training opportunities to county staff through in house and traditional formal training methods.
- Develop project templates to ease transition for end users
- Assess departmental geospatial data types, convert and migrate datasets as needed to ensure data preservation and access following the transition
- Assess and potentially acquire hardware to meet hardware specifications for ArcGIS Pro
- **Land Info Spending Category:** Administrative Activities and Management, Training & Education

Business Drivers

- Technological advances
- Land Information stakeholder needs
- Data preservation and accessibility

Objectives/Measure of Success

- Transition of county staff off of ArcMap desktop and adoption of ArcGIS Pro
- County staff comfortable navigating and utilizing ArcGIS Pro
- No data loss following the transition

Project Timeframes

Timeline – Project #8 ArcGIS Pro Migration		
Milestone	Duration	Date
Project #8 start	–	January 1, 2025
Project complete	–	December 1, 2026

Responsible Parties

- Dunn County Land Information
- Dunn County users of ArcMap

Estimated Budget Information

- See table at the end of this chapter.

Project #9: Scanning and Indexing of Grantor/Grantee Indexes

Project Description

- Scanning and indexing of grantor/grantee indexes at the Register of Deeds Office. There currently is no digital back up to these records and the books should be scanned and indexed before their condition no longer is conducive to scanning.
- Land Info Spending Category: Other Parcel Work (Register of Deeds Indexing)

Business Drivers

- Preservation of records
- Public interest
- Records accessibility

Objectives/Measure of Success

- Scan and index all grantor/grantee indexes that are not in the computerized tract
- Import the indexed images into the Register of Deeds recorded document system for desktop and online accessibility.

Project Timeframes

Timeline – Project #9 Scanning and Indexing of Grantor/Grantee Indexes		
Milestone	Duration	Date
Project #9 start	–	December 2026
Project complete	–	December 31, 2027

Responsible Parties

- Selected scanning vendor
- Imaging hosting vendor
- Dunn County Register of Deeds Office

Estimated Budget Information

- See table at the end of this chapter.

Project #10: GIS and Land Records Software Hosting and Maintenance Services

Project Description

- Invest in software and hardware maintenance to continue operations, support, and development of software systems utilized by Dunn County land records stakeholders
- **Land Info Spending Category:** Software and Website Development/Hosting Services, Hardware

Business Drivers

- Data and records preservation and accessibility
- Technological advances and needs

Objectives/Measure of Success

- Provide current and historical land records information to consumers through multiple technology offerings. If the data is inaccessible, out of date, or incorrect, the value of the information decreases, and our consumers will surely let their feelings be known.

Project Timeframes

Timeline – Project #10 GIS and Land Records Software Hosting and Maintenance Services		
Milestone	Duration	Date
Project #10 start	–	January 1, 2025
Project complete	–	December 31,2027

- Ongoing throughout the 3-year cycle

Responsible Parties

- Land Records software vendors
- ESRI Enterprise license agreement maintenance
- Land records internal/external stakeholders
- Dunn County Land Information

Estimated Budget Information

- See table at the end of this chapter.

Project #11: 3DEP LiDAR Acquisition

Project Description

- Potential LiDAR acquisition in 2027. Acquisition is dependent on additional funding partners and resources. Potential derivatives would be acquired in subsequent years due to funding constraints.
- **Land Info Spending Category:** LiDAR

Business Drivers

- Highway construction and planning
- Land conservation and land use initiatives
- Potential partner funding opportunities
- Technological advances and needs

Objectives/Measure of Success

- Timely delivery of classified LiDAR data that meets USGS Quality Level 2 standards to then support the development of derivatives.

Project Timeframes

Timeline – Project #11 3DEP LiDAR Acquisition		
Milestone	Duration	Date
Project #11 start	–	January 1, 2027
Project complete	–	December 31,2027

Responsible Parties

- Contracted service providers
- Project partners
- Dunn County Land Information

Estimated Budget Information

- See table at the end of this chapter.

Completed Projects

- A spring, leaf off, 2023 countywide 6" aerial photo was obtained.
- Development of field applications for land conservation inspection and highway culvert collection
- Maintenance and enhancement of water quality application
- Purchase of GPS unit and hardware to support field operations
- Significant modifications to Emergency Management geospatial datasets and transition to NG9-1-1
- Land Information staff attended Wisconsin Land Information conference and training events
- Land Information staff complete ArcGIS pro training plans and formal training through Esri
- Continued progress of remapping and reviewing right of way areas
- Development of a building footprints layer
- Completed the annual statewide parcel submissions
- Updates to hydrology datasets
- Parcel map revisions and conformance to WLIP benchmark standards

Estimated Budget Information (All Projects) for Planning Period 2025-2027

Estimated Budget Information

Project Title	Item	Unit Cost/Cost	Land Info Plan	Project Total
			Citations Page # or section ref.	
Project plan to maintain searchable format (Benchmarks 1 & 2)	Land Information Office staff	25% of \$10000 (SI) = \$2,500 x 3 years	Page Project Plan to Maintain Searchable Format (Benchmarks 1 & 2)33	\$7,500.00
Project plan for PLSS (Benchmark 4)	Land information office staff in cooperation with Survey staff.	75% of \$10000 (SI) = \$7,500 x 3 years	Page 34	\$22,500.00
#1 - Emergency Management Data Development & Maintenance	Land Information Office staff and/or contracted services	\$35,000 (BB)	Page 35	\$35,000.00
#2 - Aerial Imagery Collection	Land information office staff, City of Menomonie, and contractor	\$67,000 (SI, BB, and/or retained fees)	Page 36	\$67,000.00
#3 - Editing for Parcel Fabric Accuracy and PLSS Line Work	Land information office staff	20% of \$50,000 (BB) = \$15,000 Times 3 years	Page 37	\$45,000.00
#4 - Core System Hardware & Software Upgrades	Land Information Office staff and/or contracted services	\$20,000 (BB or retained fees)	Page 37	\$20,000.00
#5 - Web & Mobile Mapping Applications	Land Information Office staff and/or contracted services	5% of \$50,000 (BB or retained fees) = \$2500 times 3 years	Page 38	\$7,500.00
#6 - Mapping of Special Taxing Jurisdictions	Land Information Office staff	\$6,000 (BB)	Page 39	\$6,000.00
#7 - Right-of-Way Development	Land Information Office staff and/or contracted services	5% of \$50,000 (BB) = \$2500	Page 39	\$7,500.00
#8 - ArcGIS Pro Migration	Land information office staff Departments Software vendor	\$10,000 (BB)	Page 40	\$10,000.00
#9 - Scanning and Indexing of Grantor/Grantee Indexes	Register of Deeds staff and outside vendors and software providers	\$20,000 (BB and/or retained fees)	Page 41	\$20,000.00
#10 - GIS and Land Records Software Hosting and Maintenance Services	Land Information office staff and outside vendors and software providers	\$60,000/3 year - Esri \$5,000/year - Schneider \$6,000 Additional maintenance costs for services (BB or retained fees)	Page 41	\$81,000.00
#11 - 3DEP LiDAR Acquisition	Land Information office staff Outside vendors	TBD	Page 42	TBD
BB = Base Budget Grant (Used for general land records projects)				
SI = Strategic Initiative Grant (mandated for specific WLIP benchmark initiatives and projects)				
Retained Fees are reserved from recordings at the ROD office.				
GRAND TOTAL				\$329,000.00

Note. These estimates are provided for planning purposes only. Budget is subject to change.

