

*Oconto County  
Land Records Modernization Plan  
2016-2018*



# Table of Contents

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<b>1</b>	<b>EXECUTIVE SUMMARY</b> .....	<b>1</b>
<b>2</b>	<b>INTRODUCTION</b> .....	<b>2</b>
<b>3</b>	<b>FOUNDATIONAL ELEMENTS</b> .....	<b>4</b>
	PLSS.....	5
	Parcel Mapping.....	6
	LiDAR and Other Elevation Data .....	9
	Orthoimagery .....	10
	Address Points and Street Centerlines .....	10
	Land Use .....	12
	Zoning.....	12
	Administrative Boundaries .....	13
	Other Layers .....	15
<b>4</b>	<b>LAND INFORMATION SYSTEM</b> .....	<b>16</b>
<b>5</b>	<b>CURRENT &amp; FUTURE PROJECTS</b> .....	<b>19</b>
	Project Plan to Achieve Searchable Format (Benchmarks 1 & 2).....	23
	Project Plan for Parcel Completion (Benchmark 3).....	24
	Project Plan for PLSS (Benchmark 4).....	24

# 1 Executive Summary

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**About this Document.** This land records modernization plan for Oconto County was prepared by the Oconto County Planning and Zoning and the Land Information Systems Divisions of the Land and Water Resources Office; the Oconto County Land Information Officer (LIO); the Oconto County Land Information Council; and the Oconto County Land Information Planning Workgroup. This plan has been reviewed by the Wisconsin Land Information Program (WLIP) a division of the Department of Administration (DOA), approved by the Oconto County Land Information Council, and was adopted by the Oconto County Board of Supervisors on April 21, 2016 (Resolution 27-2016).

By Wisconsin statute, “a countywide plan for land records modernization” is required for participation 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 businesses and county residents.

**WLIP Background.** The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by register of deeds at the county-level. Oconto County is eligible for WLIP grants and beginning in 2016, WLIP Strategic Initiative grants.

This plan lays out how funds from grants and retained fees will be prioritized. However, as Oconto County department 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 Oconto County.** Land information is vital to Oconto County operations, as many essential services rely on accurate and up-to-date geospatial data and land records. A countywide land information system supports land use planning, economic development, emergency planning and response, and a host of other services. The Oconto 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.

**Mission of the Land Information Office.** Oconto County strives to continually develop, enhance, and implement a modern geographic information system (GIS) that addresses land information needs and provides quality data and applications for users of land information in an equitable and efficient manner.

**Land Information Office Projects.** To realize this mission, in the next three years, the county land information office will focus on the following projects:

1. PLSS Remonumentation and Section Protractions
2. Parcel Mapping Updates
3. Develop Zoning Dataset
4. Develop Address Point Dataset
5. Create and/or Enhance GIS Applications
6. Development and Updating of Datasets
7. Orthophography Acquisition
8. Register of Deeds Digital Conversion
9. Support and Updates to E911 Mapping
10. Provide GIS Tools, Training, and Educational Opportunities for County Staff
11. Exploring the use of Mobile GPS/GIS Technology
12. Exploring the Migration to ESRI Parcel Fabric

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

## 2 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 Oconto County in planning for land records modernization.

### The WLIP and the Land Information Plan Requirement

In order to participate in the WLIP, Oconto County 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
- Meet the WLIP deadline to post certain types of parcel information online

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

### Act 20 and the Statewide Parcel Map Initiative

A major development for the WLIP occurred in 2013 through the state budget bill, known as Act 20. It directed the Department of Administration (DOA) to create a statewide digital parcel map in coordination with counties.

Act 20 also provided more revenue for WLIP grants, specifically for the improvement of local parcel datasets. The WLIP is dedicated to helping counties meet the goals of Act 20 and has proposed that funding be made available to counties in the form of Strategic Initiative grants to be prioritized for the purposes of parcel dataset improvement. For Strategic Initiative grant eligibility, counties will be 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—are determined through a participatory planning process and will be detailed in future WLIP grant applications.

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. Thus, the minimum planning horizon for these documents is three years. The plan may incorporate a planning horizon that is longer if the needs and priorities of the participants warrant.

### County Land Information System History and Context

Oconto County has taken the initiative to pursue a land records modernization program based on the Wisconsin Land Information Program (WLIP). As its first step, on May 17, 1990 Oconto County formed the Oconto County Land Information Office (OCLIO) (Resolution 90-45) to coordinate the Land Records Modernization Program in accordance with Wisconsin State Statutes.

#### 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 16.967(1)(b)

## 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 Oconto 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 (if appointed)
- 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. A record documenting county land information council approval should be included in the final submission of the plan to DOA. County board approval of plans is encouraged but not required. A county may amend a plan with updates or revisions as appropriate. If amended, a digital copy of the amended plan and record of land information council approval should be sent to the WLIP.

This Oconto County Land Information Plan was prepared by the Oconto County Planning and Zoning and the Land Information Divisions of the Oconto County Land & Water Resources Office; the Oconto County LIO; the Land Information Council; and others as listed below.

Oconto County Land Information Council and Plan Workgroup				
Name	Title	Affiliation	Email	Phone
* Brian Gross	County Surveyor	Land Information Council / Chairperson	brian.gross@co.oconto.wi.us	920.834.6827
* Kevin Dolata	GIS Coordinator / LIO	Land Information Council	kevin.dolata@co.oconto.wi.us	920.834.6827
* Patrick Virtues	Planning, Zoning, & Solid Waste Administrator	Land Information Council	pat.virtues@co.oconto.wi.us	920.834.6827
* Annette Behringer	Register of Deeds	Land Information Council	annette.behringer@co.oconto.wi.us	920.834.7115
* Tanya Peterson	County Treasurer	Land Information Council	tanya.peterson@co.oconto.wi.us	920.834.6814
* Tim Magnin	Emergency Management Director	Land Information Council	tim.magnin @co.oconto.wi.us	920.834.6850
* Leland Rymer	Realtor / County Board Chairperson	Land Information Council	lee.rymer@co.oconto.wi.us	920.834.6800
* Greg Sekela	County Board Member	Land Information Council	gregory.sekela@co.oconto.wi.us	920.834.6800
Jamie Broehm	Principal Planner	Land Information Advisory Member	jamie.broehm@co.oconto.wi.us	920-834-6827
Wayne Sleeter	Technology Services Manager	Land Information Advisory Member	wayne.sleeter@co.oconto.wi.us	920-834-6871
Kevin Hamann	Administrative Coordinator	Land Information Advisory Member	kevin.hamann@co.oconto.wi.us	920-834-6811
Kim Pytleski	County Clerk	Land Information Advisory Member	kim.pytleski@co.oconto.wi.us	920-834-6806
Robert Skalitzky	Forest, Parks, & Recreation Administrator	Land Information Advisory Member	robert.skalitzky@co.oconto.wi.us	920 834-6995
Ken Dolata	Soil Conservationist	Land Information Advisory Member	ken.dolata@co.oconto.wi.us	920 834-7152
Patrick Scanlan	Highway Commissioner	Land Information Advisory Member	pat.scanlan@co.oconto.wi.us	920-834-6896
Terri Boos	Finance Director	Land Information Advisory Member	teri.boos@co.oconto.wi.us	920-834-7111

Land Information Council members are designated above by an asterisk. The Oconto County Land Information Council was originally created on July 22, 2010, by the Oconto County Board of Supervisors (Resolution 50-2010) in accordance with s. 59.72(3m) Wis. Stats.

# 3 FOUNDATIONAL ELEMENTS

Oconto County 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 by users 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, the *Uniform Instructions* place 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**

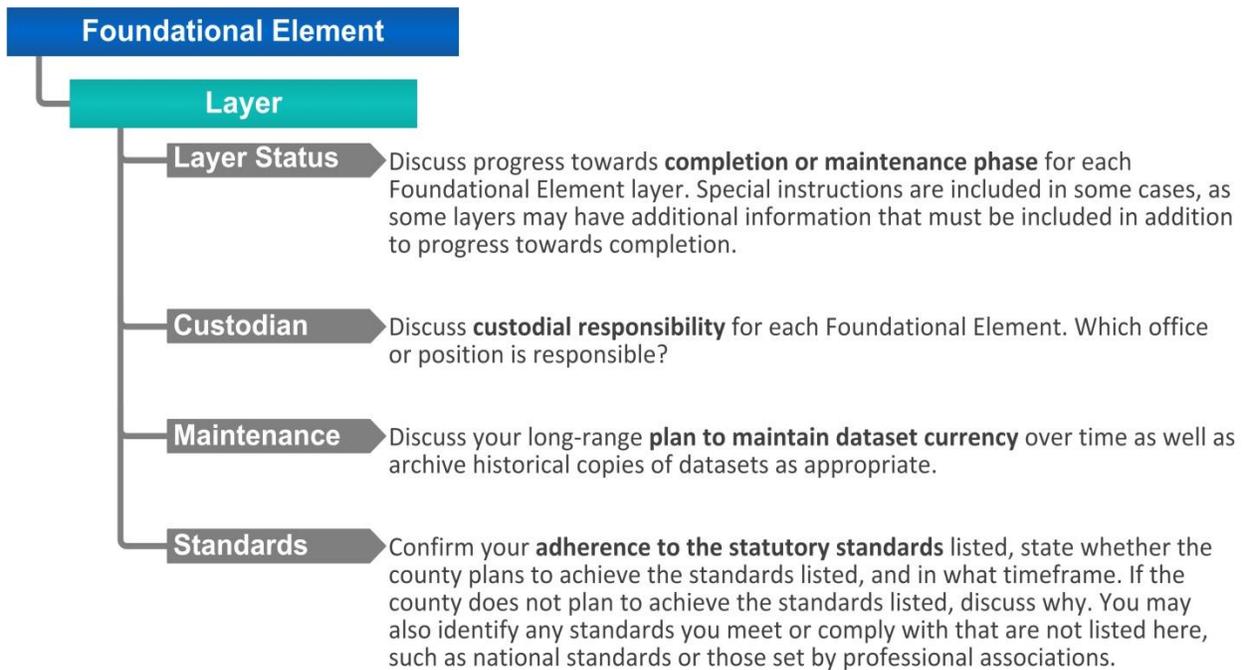
- PLSS
- Parcel Mapping
- LiDAR and Other Elevation Data
- Orthoimagery
- Address Points and Street Centerlines
- Land Use
- Zoning
- Administrative Boundaries
- Other Layers

The list of WLIP’s Foundational Elements has evolved with each update of the county land information plan instructions. They are a guideline of what counties need to address in their plans *at a minimum*. As the list of layers in this document is not exhaustive, counties are welcome to insert additional layers for geospatial data categories stewarded by the county or municipalities that are of importance to local business needs.

## Foundational Element Subheadings

For each layer listed under a Foundational Element, the plan should address: 1) Layer Status, 2) Custodian, 3) Maintenance, and 4) Standards.

If an element or layer does not apply to your county, please state why it is not applicable.



**Public Land Survey System Monuments**

**Layer Status**

- For the PLSS Foundational Element, the table below documents Layer Status

PLSS Layer Status																			
Name	Status/Comments																		
Total number of PLSS corners (section, ¼, meander) set in original government survey	Approximately 3475																		
Number and percent of PLSS corners that have been remonumented	Approximately 3266 or 94%																		
Number and percent of remonumented PLSS corners with survey grade coordinates (see below for definition)	Approximately 2513 or 72%																		
Number and percentage of survey grade PLSS corners integrated into county digital parcel layer	Approximately 2237 or 64%																		
Number and percentage of non-survey grade PLSS corners integrated into county digital parcel layer	Approximately 1238 or 36%																		
Percentage of PLSS corners that have digital tie sheets (whether or not they have corresponding coordinate values)	100% of those filed Note: Not all these corners have coordinate values. Tie sheets and values are available on the Oconto County website.																		
Are digital tie sheets available online? Yes or No	YES																		
Approximate number of PLSS corners believed to physically exist based on filed tie-sheets or surveys, but do not have coordinate values	753																		
Approximate number of PLSS corners believed to be lost or obliterated	209																		
Total number of PLSS corners along each bordering county	<table border="1"> <tr><td>Brown</td><td>36</td></tr> <tr><td>Forest</td><td>24</td></tr> <tr><td>Langlade</td><td>41</td></tr> <tr><td>Shawano</td><td>69</td></tr> <tr><td>Marinette</td><td>144</td></tr> <tr><td>Menominee</td><td>75</td></tr> </table>	Brown	36	Forest	24	Langlade	41	Shawano	69	Marinette	144	Menominee	75						
Brown	36																		
Forest	24																		
Langlade	41																		
Shawano	69																		
Marinette	144																		
Menominee	75																		
Number and percent of PLSS corners remonumented along each county boundary	<table border="1"> <tr><td>Brown</td><td>36</td><td>100%</td></tr> <tr><td>Forest</td><td>24</td><td>0%</td></tr> <tr><td>Langlade</td><td>41</td><td>0%</td></tr> <tr><td>Shawano</td><td>69</td><td>100%</td></tr> <tr><td>Marinette</td><td>144</td><td>68%</td></tr> <tr><td>Menominee</td><td>75</td><td>0%</td></tr> </table>	Brown	36	100%	Forest	24	0%	Langlade	41	0%	Shawano	69	100%	Marinette	144	68%	Menominee	75	0%
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Brown	36	100%																	
Forest	0	0%																	
Langlade	0	0%																	
Shawano	69	100%																	
Marinette	98	68%																	
Menominee	21	36%																	
Does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders?	Yes																		

**Custodian**

- Land Information Systems a Division of Land & Water Resources

**Maintenance**

- As needed and in accordance with Ordinance No. 287-1996 Public Land Survey System (PLSS) Remonumentation. Continued funding will be necessary to preserve these monuments

## 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 requirements.
- Wisconsin County Surveyor's Association **survey grade** standard:
  - Coordinates collected under the direction of a Professional Land Surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision.

## Other Geodetic Control and Control Networks

In 1994, Oconto County completed geodetic densification from stations within the Wisconsin High Accuracy Reference Network (HARN). The network consists of 27 – 1, 2 and 4 PPM stations, which were established using the “Guidelines to Support Densification of the Wisconsin High Accuracy Reference Network (HARN) using Global Positioning System (GPS) Technology” standards specifications that were current at that time, the county continually adds 10ppm stations, from its existing network. We feel there will be adequate horizontal geodetic control strategically placed throughout the County to meet our and other users’ needs. Coordinate values are available in Oconto County, State Plane and Latitude and Longitude. The County assumes the custodial responsibility for the densified control stations. We plan on using the existing NGS and USGS vertical network for vertical control. Any new stations set by the County would adhere to Third-order standards. The WISCORS (Wisconsin Continuously Operating Reference Stations) have proved to be a very useful tool and once the height modernization is completed will benefit Oconto County immensely

### Layer Status

- No County Layer as of this date, but information is available via the State Cartographers Office, Control Finder.

### Custodian

- Land Information Systems a Division of the Land & Water Resources Office for County densification
- WDOT for WISCORS and Height Modernization

### Maintenance

- As needed

### Standards

- Guidelines to Support Densification of the Wisconsin High Accuracy Reference Network (HARN) using Global Positioning System (GPS) Technology

## Parcel Mapping

### Parcel Geometries

In the early 1970's, Oconto County began developing a countywide parcel map at a scale of 1"= 200' on 30"x36" sheets of mylar. These maps used a base map scaled from the USGS quad maps and were continually updated. In 1994, the county digitized these maps and (rubber sheeted) registered them to the WDNR 1:24K Landnet. By the late 1990's as complete township, surveys were completed and sections protracted by the County Surveyor, the parcels maps were again re-mapped using coordinate geometry.

### Layer Status

- Approximately two thirds of the county is mapped using survey grade PLSS monumentation. The remaining one third is referenced to the WDNR Landnet
- 100% of the county's parcels are available in a commonly used GIS format, but at varying levels of accuracy
- Projection: Transverse Mercator and WISCRS (Wisconsin Coordinate Reference Systems) as published in 2009 by the State Cartographers Office, second edition
- Note whether your parcel polygon model directly integrates tax/assessment data as parcel attributes

- The ESRI Parcel Fabric Data Model, and/or ESRI’s Local Government Information Model will be a consideration as mapping proceeds and as funds and staffing become available

**Custodian**

- Land Information Systems a Division of Land & Water Resources

**Maintenance**

- Parcel Mapping is continually being updated. On average the entire county gets updated bi-annually

**Standards and Documentation**

- Data dictionary in human-readable form, with thorough definitions for each element/attribute name, and explanations of any county-specific notations, particularly for parcel attributes listed by s. 59.72(2)(a) will be a consideration as mapping proceeds and as funds and staffing are available

**Assessment/Tax Roll Data**

**Layer Status**

- Currently Oconto County’s property assessments, treasurer’s collection and permit tracking all reside on a windows operating system software developed by GCS which was purchased in 2012 for a sum of \$38,800 (Resolution 51-12). The assessment and tax roll are cooperatively prepared between the local municipality assessor and the property listing staff. Tax bills are printed in house by the property listing staff using pre-designed sealers

**Custodian**

- Land Information Systems a Division of the Land & Water Resources Office

**Maintenance**

- The assessment and tax roll data information is being continually updated and maintained

**Standards**

- s. 73.03(2a), Wis. Stats. Department of Revenue (DOR) – Powers and duties defined Department of Revenue Property Assessment Manual – Chapter 5 and DOR format standard requested by DOR for assessment/tax roll data
- s. 59.72(2)(a), Wis. Stats. Presence of all nine “Act 20” attributes
- s. 59.72(2)(a), Wis. Stats. Crosswalk of attributes

Act 20 Attributes Required by s. 59.72(2)(a)	Field Name(s) in County Land Info System	Notes on Data or Exceptions to DOR Standard
Assessed value of land	LNDVALUE	
Assessed value of improvements	IMPVALUE	
Total assessed value	CNTASSDVALUE	
Class of property, as specified in s. 70.32 (2)(a)	PROPCLASS	
Estimated fair market value	ESTFMKVALUE	
Total property tax	GRSPRPTA	
Any zoning information maintained by the county	This information is stored in a separate data base	Zoning information is not required in DOR schema
Any property address information maintained by the county	PSTLADDRESS SITEADDRESS ADDNUMPREFIX ADDNUM ADDNUMSUFFIX PREFIX STREETNAME STREETTYPE SUFFIX LANDMARKNAME UNITTYPE UNITID	
Any acreage information maintained by the county	DEEDACRES ASSDACRES GISACRES	Acreage based on the legal description Acreage based on the assessment data Acreage based on GIS data

## Non-Assessment/Tax Information Tied to Parcels

e.g., permits, easements, non-metallic mining, brownfields, restrictive covenants

### Layer Status

- Permits (*Land Use, Conditional Use, Sanitary, Shoreland, Floodplain, Non-Metallic, etc.*)
- Farmland Preservation
- Active Non-Metallic Mining Sites
- Structure Points
- Building Footprints
- LOMA/LOMR Locations

### Custodian

- Planning and Zoning a Division of Land & Water Resources

### Maintenance

- Permits are continuously maintained with other data sets being updated annually

### Standards

- Mapped using best available parcel mapping and orthophotography

## ROD Real Estate Document Indexing and Imaging

### Status

- **Grantor/Grantee Index.** The Index from 2000 to present is in digital format. From 1985 to 1999 is in hard copy printout format. Prior to 1985, the index is hand written, in bound books. Currently, one staff position is working on back indexing. Adding recording date and time, recording information, document type, instrument date, page count, loan amount where applicable, grantor/grantee name, and legal description to documents that have been imported into the current LandShark/LandLink indexing program.
- **Tract Index.** The tract index follows the same course as the Grantor/Grantee Index. From 2000 to the present, this index is part of the same index as Grantor/Grantee. Prior to 2000, the index is kept in large bound books, separated into quarter/quarter or government lots, section, township, range, or by lot and block in plats/subdivisions. (The current system is tractable by Certified Survey Map, as well.) It is not Parcel PIN-Based or PLSS-Based. All documents (deeds, easements, mortgage, satisfactions, plats, certified survey maps, etc.) are posted to the Tract Index system if they contain a legal description.
- **Imaging.** Documents are currently scanned back to 04/19/1960, with the images available to retrieve from our on-line LandShark/LandLink program to 09/01/1978. The documents between those dates are waiting to be imported into the computerized system. It is the goal of this office to continue to scan all the documents within the bound books back to 1838, for several reasons;
  - a) Security, in order to preserve, on the chance of a catastrophic event, be it a natural disaster, or because of the current storage arrangement. Currently, the last books needing to be scanned are stored in a vault with water pipes running over head.
  - b) Safety, these documents are in large bound books, some on 10 foot high shelves which require access by means of a rolling ladder. Requiring climbing, reaching and lifting by employees, as well as the public, with threat of injury or mishap.
  - c) Availability, once scanned, employees of the Register of Deeds office, as well as other county offices, and outside record users, can access the records by means of the current computerized indexing system, saving time and money, as well as providing convenience to all record users.

Currently, it is the desire of the Register of Deeds office to complete the scanning of the records, and incorporation of them into the computerized indexing system. It is planned to continue the effort of indexing the scanned images, to provide ease in locating the records by more than document number, volume and page, as is provided by the scanning vendor. The workload of the current staff has not allowed for time to work on back indexing. The part-time staff person is working only a small amount of time on the back indexing, as her weekly working hours are restricted. The possibility of purchasing a software program is being pursued.

## **Custodian**

- County Register of Deeds

## **Maintenance**

- As Needed

## **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**

- In 2005, Oconto County purchased a county wide LiDAR data set. In 2010, through a American Recovery and Reinvestment Act Grant, new lidar data was developed for the areas of the USH 41 bypass of the City of Oconto and for the USH 141 bypass of the Village of Lena.

### **Custodian**

- Land Information Systems a Division of Land & Water Resources

### **Maintenance**

- The present LiDAR will be maintained as is until new data is obtained. Any new LiDAR data will be maintained as an independent data set

### **Standards**

- Conduct a Light Detection and Ranging (LiDAR) acquisition flight. The raw LiDAR data density (posting) will be approximately 3-meters. Total coverage of County is 1020 square miles or 653,070 square acres
- Post process the raw LiDAR data to remove LiDAR data which define vegetative canopy, undergrowth, buildings, and other above bare earth features. Final processed file will contain bare earth X, Y and Z values at an approximate density (posting) 5-meters (Digital Elevation Model)
- Integrate 3-dimentional breaklines into the bare earth data gird to create a Digital Terrain Model (DTM)
- Interpolate 2-foot contours from the DTM
- All map products will meet ASPRS Class II accuracy standards. Deliverable items will include a countywide DTM (Oconto County Coordinates horizontal) (vertical reference datum (NAVD88)), 2 foot contour vector files in AutoCAD format, and FGDC compliant metadata for all digital files in MSWord and XML format

## **LiDAR Derivatives**

e.g., terrain, contours, digital elevation models, etc.

### **Layer Status**

- 2-foot contour vector files
- Integrate 3-dimentional breaklines into the bare earth data gird to create a Digital Terrain Model (DTM)

### **Custodian**

- Land Information Systems a Division of Land & Water Resources

### **Maintenance**

- This data set will remain as is. When new data is obtained the data sets will still remain independent

### **Standards**

- All map products will meet ASPRS Class II accuracy standards

## **Other Types of Elevation Data**

### **Layer Status**

- NA

### **Custodian**

- NA

## Maintenance

- NA

## Standards

- NA

# Orthoimagery

## Orthoimagery

### Layer Status

- Oconto County has obtained the following imagery;
  - 1998 county wide (3m b/w) NAPP Digital Orthophotography
  - 2004 county wide (12" b/w) ASPRS standard for Class III horizontal map accuracy
  - 2004 city of Oconto (6" b/w) ASPRS standard for Class III horizontal map accuracy
  - 2010 county wide (12" color) National Map Accuracy Standards for 1"=200' scale mapping
  - 2014 county wide (6" color) targeted for ASPRS Class I Specifications
- Oconto County is tentatively planning to acquire new imagery in 2018 or 2019 dependent on funding

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- This data remains as delivered

### Standards

- Imagery will need to meet or exceed specified standards

## Historic Orthoimagery

### Layer Status

- Oconto County has 1938, 1973, and 1988 hard copy imagery of the county forest

### Custodian

- Forestry and Parks a Division of Land & Water Resources

### Maintenance

- This data remains as delivered

### Standards

- Not specified

## Other Types of Imagery

e.g., oblique, infra-red, etc.

### Layer Status

- Oconto County obtained four-band color IR in the 2014 ortho acquisition

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- This data remains as delivered

### Standards

- ASPRS Class I Specifications

# Address Points and Street Centerlines

## Address Point Data

### Layer Status

- County wide at various levels of accuracy
  - Approximately half of Oconto County has updated address point data (*created 2015*)

### Custodian

- Land Information Systems a Division of Land & Water Resources
- Planning and Zoning a Division of Land & Water Resources

## Maintenance

- Physical address applications will be used annually to assign new points. New data points placed after most recent orthophotography will be reviewed after new orthophotography is obtained

## Standards

- No Recognized Standard. Data was developed using most recent orthophotography to place points on the centerline of the driveway at the right-of-way

## Building Footprints

### Layer Status

- Oconto County acquired county wide footprint data with the 2014 ortho acquisition

### Custodian

- Land Information Systems a Division of Land & Water Resources
- Planning and Zoning a Division of Land & Water Resources

### Maintenance

- This data will remain as delivered
- Any additional building footprint data will be maintained in a new data set that maintains same fields

### Standards

- Compiled from 2014 aerial imagery
- County wide 10' x 10' structures or larger
- Map scale 1" = 100'
- Additional verification from 2005 LiDAR
- Survey data obtained
- Post initial delivery building footprint data will be created using most recent orthophotography and survey data when available

## Other Types of Address Information

e.g., address ranges

### Layer Status

- Oconto County has developed address ranges for the E911 software Spillman, these are continually reviewed and updated as roads are created and expanded

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- As needed. Ranges are expanded and apportioned as development occurs, in addition there is occasional requests from Entrodo for verification and confirmation

### Standards

- No Recognized Standard. *(Data was developed using most recent orthophotography)*

## Street Centerlines

### Layer Status

- County wide at various levels of accuracy

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- Continually updating new roads, public and private. Land Information Systems policy allows for centerlines to vary within 3 feet where discrepancies occur

### Standard

- Centerline attributes identify the type of road; local, county, state, federal and private

## Rights of Way

### Layer Status

- County wide at various levels of accuracy

### Custodian

- Land Information Systems a Division of Land & Water Resources

## Maintenance

- As needed

## Standards

- Using surveys, right of way plats and legal descriptions

## Trails

e.g., recreational trails

### Layer Status

- County wide at various levels of accuracy

### Custodian

- Forestry and Parks a Division of Land & Water Resources
- Land Information Systems a Division of Land & Water Resources
- Planning and Zoning a Division of Land & Water Resources

### Maintenance

- As needed

### Standards

- Trail information is obtained using mapping grade GPS or using most recent orthophotography

## Land Use

### Current Land Use

#### Layer Status

- County wide (2006)

#### Custodian

- Planning and Zoning a Division of Land & Water Resources

#### Maintenance

- Maintain as delivered

#### Standards

- Created from a windshield survey and using most recent orthophotography

### Future Land Use

#### Layer Status

- County wide

#### Custodian

- Planning and Zoning a Division of Land & Water Resources

#### Maintenance

- Maintain as delivered or as planning amendments are made

#### Standards

s. 66.1001, Wis. Stats. Comprehensive planning.

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

## Zoning

### County General Zoning

#### Layer Status

- County wide (23 towns)

#### Custodian

- Land Information Systems a Division of Land & Water Resources
- Planning and Zoning a Division of Land & Water Resources

#### Maintenance

- As needed

#### Standards

- Created based on parcel boundaries

## County Special Purpose Zoning

e.g., shoreland, farmland preservation, floodplain, and airport protection

### Layer Status

- County wide (23 towns)

### Custodian

- Land Information Systems a Division of Land & Water Resources
- Planning and Zoning a Division of Land & Water Resources

### Maintenance

- As needed

### Standards

- Created based on parcel boundaries

## 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

- City of Oconto (*General Zoning*)
- Village of Suring (*General Zoning*)

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- Annually

### Standards

- Created based on parcel boundaries

## Administrative Boundaries

### Civil Division Boundaries

e.g., towns, city, villages, etc.

### Layer Status

- County wide (23 townships, 3 cities, and 3 villages)

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- As Needed (*new civil divisions, annexations, or when more accurate parcel mapping is completed*)

### Standards

- Created based on parcel boundaries

### School Districts

#### Layer Status

- County wide
- Parcel data has attribute field with school district code

#### Custodian

- Land Information Systems a Division of Land & Water Resources

#### Maintenance

- As needed

#### Standards

- DOR classification codes

### Election Boundaries

e.g., voting districts, precincts, wards, voting places, etc.

#### Layer Status

- County wide

#### Custodian

- Land Information Systems a Division of Land & Water Resources

## **Maintenance**

- As needed (required every 10 years after census completed)

## **Standards**

- DOR classification codes

## **Utility Districts**

e.g., water, sanitary, electric, etc.

### **Layer Status**

- County wide (sanitary sewer)

### **Custodian**

- Land Information Systems a Division of Land & Water Resources

### **Maintenance**

- As needed

### **Standards**

- DOR classification codes

## **Public Safety**

e.g., fire/police districts, emergency service districts, 911 call center service areas, healthcare facilities

### **Layer Status**

- County wide (fire, police, and ambulance service districts)

### **Custodian**

- Land Information Systems a Division of Land & Water Resources

### **Maintenance**

- As needed (working with service providers and municipalities)

### **Standards**

- Agreed boundaries (*town, parcel, road etc.*)

## **Lake Districts**

### **Layer Status**

- County wide

### **Custodian**

- Land Information Systems a Division of Land & Water Resources

### **Maintenance**

- As needed

### **Standards**

- DOR classification codes

## **Native American Lands**

### **Layer Status**

- NA

### **Custodian**

- NA

### **Maintenance**

- NA

### **Standards**

- NA

## Other Administrative Districts

e.g., county forest land, parks, etc.

### Layer Status

- County wide (county forest)

### Custodian

- Land Information Systems a Division of Land & Water Resources
- Forestry and Parks a Division of Land & Water Resources

### Maintenance

- DNR and County Forester

### Standards

- Mapped based on parcel ownership

## Other Layers

### Hydrography Maintained by County or Value-Added

e.g., hydrography maintained separately from DNR or value-added, such as adjusted to orthos

### Layer Status

- County wide (lakes, rivers, streams)

### Custodian

- Land Information Systems a Division of Land & Water Resources

### Maintenance

- As parcel mapping is completed

### Standards

- Using parcel mapping and most recent orthophotography

### Cell Phone Towers

#### Layer Status

- NA

#### Custodian

- NA

#### Maintenance

- NA

#### Standards

- NA

### Bridges and Culverts

#### Layer Status

- NA

#### Custodian

- NA

#### Maintenance

- NA

#### Standards

- NA

### Other

e.g., pipelines, railroads, non-metallic mining, sinkholes, manure storage facilities, etc.

#### Layer Status

- County wide (non-metallic mining sites, sanitary lagoons)

#### Custodian

- Planning and Zoning a Division of Land & Water Resources

#### Maintenance

- As needed

#### Standards

- Using parcel data and most recent ortho photography

# 4 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.

## LAND INFORMATION SYSTEM

An orderly method of organizing and managing land information and land records

– Wis. Stats. section 16.967(1)(c)

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.

## Current Oconto County Land Information System

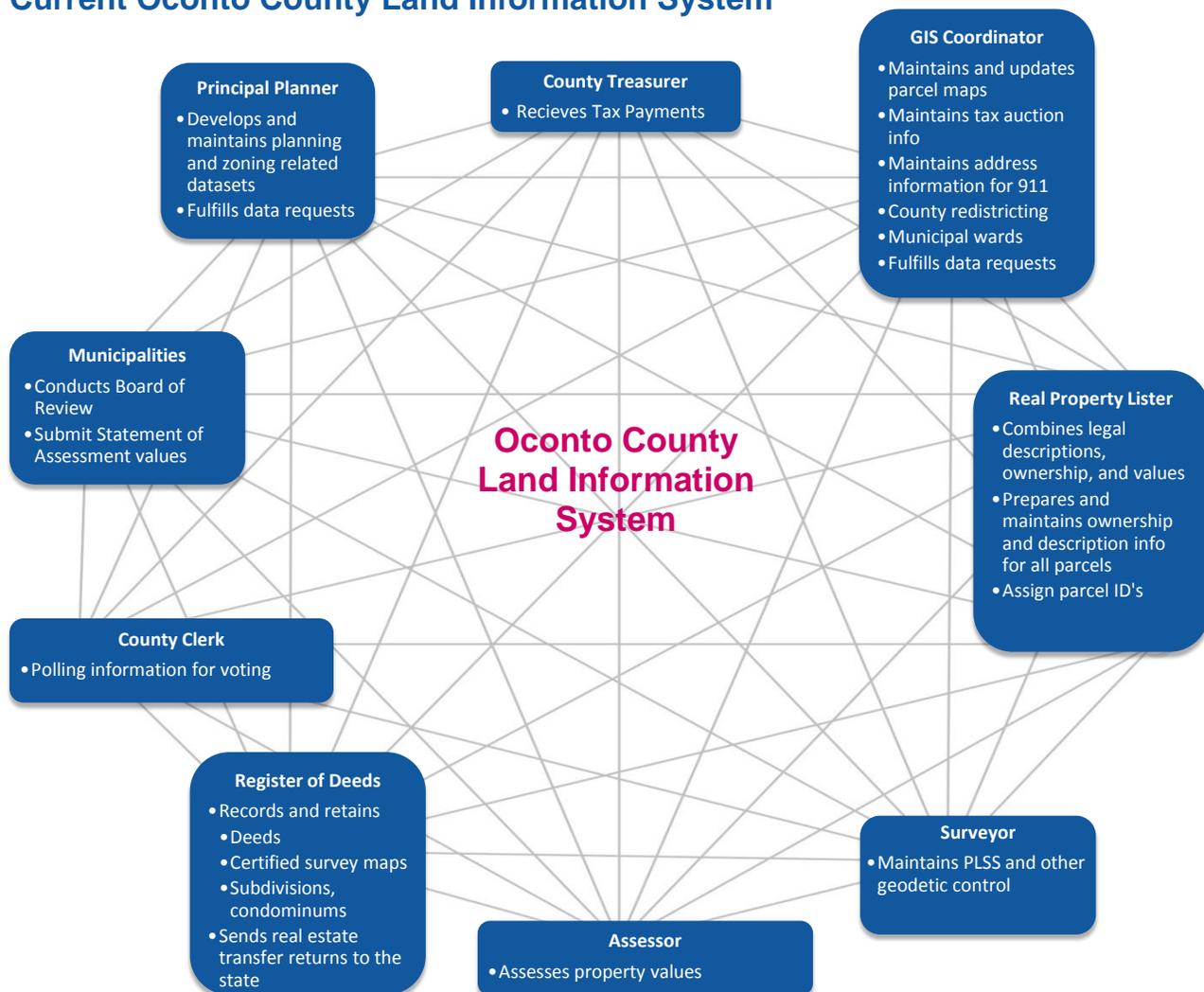
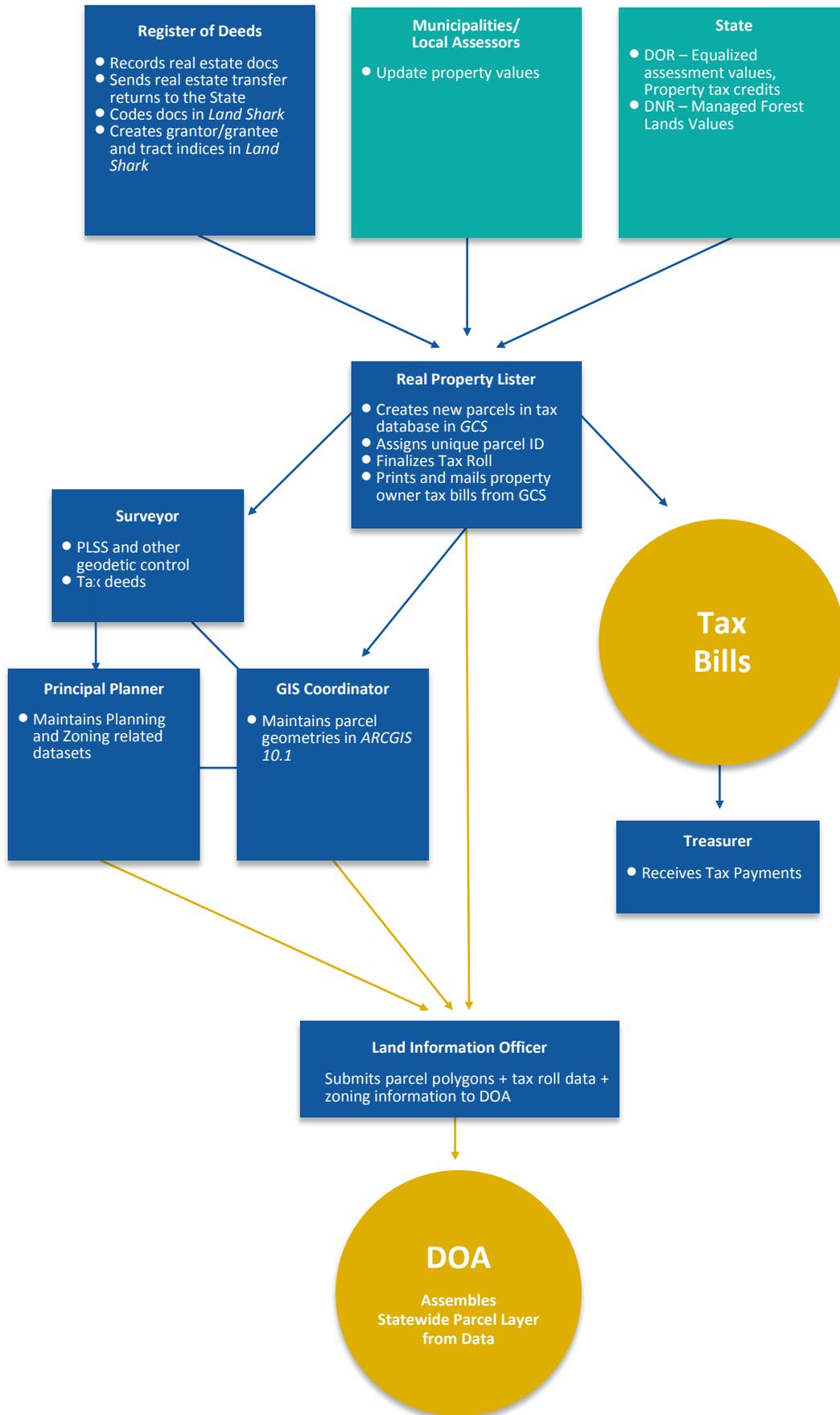


Figure 1. Oconto County Land Information System



**Figure 2. Oconto County Parcel + Tax Roll + Zoning Workflow**

## Technology Architecture and Database Design

Oconto County's land information system utilizes a number of programs and software applications to process, track, and access records. Oconto County's land information system runs on the county network and is supported by the Oconto County Technology Services (TS) Department.

## Metadata and Data Dictionary Practices

Oconto County has metadata on a limited number of datasets. Oconto County has not identified metadata tools or a policy for maintaining a minimum metadata requirement.

## Municipal Data Integration Process

Most municipal datasets are created and maintained countywide. The City of Oconto, City of Oconto Falls, City of Gillett, Village of Suring, Village of Lena, and Village of Pulaski do not fall under the County Zoning jurisdiction. However, the county has been contracted to development and maintain a zoning dataset for the City of Oconto and the Village of Suring.

## Public Access and Website Information

Type of Website	Software or Application	3 <sup>rd</sup> Party or Contractor	URL	Update Frequency/ Cycle
GIS webmapping site	<i>ESRI/Geocortex</i>	<i>Ruekert - Mielke</i>	<a href="http://ocmaps.co.oconto.wi.us/SOLO/">http://ocmaps.co.oconto.wi.us/SOLO/</a>	As Needed
ROD land records search tools	<i>Land Shark</i>		<a href="https://landshark.co.oconto.wi.us/LandShark/login.jsp?logout=1&amp;url=https%3A%2F%2Flandshark.co.oconto.wi.us%2FLandShark%2Fsearchname.jsp">https://landshark.co.oconto.wi.us/LandShark/login.jsp?logout=1&amp;url=https%3A%2F%2Flandshark.co.oconto.wi.us%2FLandShark%2Fsearchname.jsp</a>	Daily
RPL or tax parcel site	<i>GCS</i>		<a href="http://192.168.15.177/GCSWebPortal/Login.aspx?ReturnUrl=%2fGCSWebPortal%2fsearch.aspx">http://192.168.15.177/GCSWebPortal/Login.aspx?ReturnUrl=%2fGCSWebPortal%2fsearch.aspx</a>	As records are updated
Zoning information (PDF or WebApp format)	<i>ESRI/Geocortex</i>		<a href="http://ocmaps.co.oconto.wi.us/SOLO/">http://ocmaps.co.oconto.wi.us/SOLO/</a>	Bi-Annually
	<i>ESRI/PDF</i>		<a href="http://www.co.oconto.wi.us/departments/page_1edd179086a9/?department=a67c24bc2735&amp;subdepartment=b68dd8d30ab0">http://www.co.oconto.wi.us/departments/page_1edd179086a9/?department=a67c24bc2735&amp;subdepartment=b68dd8d30ab0</a>	Annually
PLSS tie sheets	<i>PDF</i>		<a href="ftp://ocgen.co.oconto.wi.us/FTPPLSS/">ftp://ocgen.co.oconto.wi.us/FTPPLSS/</a>	As needed
Survey Data	<i>PDF</i>		<a href="http://www.co.oconto.wi.us/land_survey/">http://www.co.oconto.wi.us/land_survey/</a>	As needed

## Data Sharing

### Data Availability to Public

Oconto County's data sharing policy is available as part of the map and data request form which is available on the Land Information Division Department webpage at [http://www.co.oconto.wi.us/i\\_oconto/d/619\\_-\\_map\\_data\\_request.pdf](http://www.co.oconto.wi.us/i_oconto/d/619_-_map_data_request.pdf)

## Data Sharing Restrictions

All formal map and data requests shall be submitted on the provided form. This form requires a signature and shall be submitted to the Land Information Systems a Division of the Land & Water Resources. The map and data request form is available on the Land Information Division Department webpage at [http://www.co.oconto.wi.us/i\\_oconto/d/619\\_-\\_map\\_data\\_request.pdf](http://www.co.oconto.wi.us/i_oconto/d/619_-_map_data_request.pdf)

## Government-to-Government Data Sharing

For data requests by other government agencies, municipalities etc. all fees are waived.

## Training and Education

The Oconto County Land Information Division has and will continue to provide funding as available for county staff to attend the WLIA annual conference, EWUG meetings, and other necessary and applicable trainings.

# 5 CURRENT & FUTURE PROJECTS

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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.

For each project, identify:

- Project Description/Goal
- Business Drivers
- Objectives/Measure of Success
- Project Timeframes
- Responsible Parties
- Estimated Budget Information

If your county foresees or has major technology projects planned, list them in this chapter as a project. Note that projects may focus on one single Foundational Element, or they may touch upon several Foundational Elements. Remember plans can be amended in the future should other significant projects arise.

## Project Subheadings

### PLSS Remonumentation and Section Protractions

#### Project Description/Goal

Of the approximately 3,475 PLSS corners in Oconto County, approximately 2,513 have been remonumented with survey grade coordinates. Of these approximately 140 are located along the county boundary. Oconto County will work toward remonumenting the remaining PLSS corners. This will allow for updating of parcel mapping and a more accurate product.

#### Business Drivers

This project will allow for continued parcel mapping updates and therefore more accurate data for GIS users.

#### Objectives/Measure of Success

The Land Information Division will work toward continued remonumentation until all PLSS corners are survey grade. Remonumentation of county boundary corners and current areas of parcel mapping updates will be the priority.

#### Project Timeframes

Oconto County will work toward remonumenting a minimum of 60 PLSS Corners per year.

## Responsible Parties

Oconto County Land Information division staff. Primary staff for this project will be the Oconto County Professional Land Surveyor and/or a contracted Professional Land Surveyor.

## Estimated Budget Information

\$15,000 / year until complete

## Parcel Mapping Updates

### Project Description/Goal

To continue updating parcel mapping using survey grade PLSS monumentation. Currently Oconto County has approximately five of twenty-three towns that have yet to be updated using survey grade PLSS monumentation.

### Business Drivers

Updated parcel mapping will provide more accurate information for all GIS users.

### Objectives/Measure of Success

All parcel mapping completed using survey grade PLSS monumentation.

### Project Timeframes

Oconto County plans to update one town per year until all five remaining townships have updated parcel mapping.

## Responsible Parties

Oconto County Land Information Division staff. Primary staff for this project will be the Oconto County GIS Specialist.

## Estimated Budget Information

\$250,000 (50,000 per year for 5 years)

## Develop Zoning Dataset

### Project Description/Goal

To develop a standalone zoning dataset that meets WLIP requirements.

### Business Drivers

Currently parcels may have multiple zoning districts included in parcel data. Having a separate dataset will be beneficial for various users of this data including meeting WLIP 1:1 relationship requirement.

### Objectives/Measure of Success

A complete dataset meeting WLIP 1:1 relationship requirements.

### Project Timeframes

It is expected that this dataset will be developed in 2016.

## Responsible Parties

Oconto County Land Information and the Planning and Zoning Divisions. Primary staff for this project will be the Oconto County GIS Specialist and the Oconto County Principal Planner.

## Estimated Budget Information

\$3,000

## **Develop Address Point Dataset**

### **Project Description/Goal**

Continue development of an updated address point dataset.

### **Business Drivers**

Better address point data will be valuable for various users including E911.

### **Objectives/Measure of Success**

A complete dataset.

### **Project Timeframes**

It is expected that this dataset will be developed in 2016 and 2017.

### **Responsible Parties**

Oconto County Land Information and the Planning and Zoning Divisions. Primary staff for this project will be the Oconto County GIS Specialist and an LTE.

### **Estimated Budget Information**

\$20,000 (*10,000 per year*)

## **Create and/or Enhance GIS applications**

### **Project Description/Goal**

Continue to update and enhance the public GIS viewer in addition to developing other applications to address specific GIS user needs.

### **Business Drivers**

Growing use of web based GIS applications.

### **Objectives/Measure of Success**

Oconto County will continue to strive to have GIS applications available that meet the needs of the GIS users.

### **Project Timeframes**

Ongoing and as needs arise.

### **Responsible Parties**

Oconto County Land Information and the Planning and Zoning Divisions. Primary staff for this project will be the Oconto County GIS Specialist and Oconto County Principal Planner.

### **Estimated Budget Information**

\$2,500 *annually*

## **Development and Updating of Datasets**

### **Project Description/Goal**

As parcel mapping updates continue and as the accuracy improves it will be imperative that Oconto County update existing datasets using the improved accuracy as well as create new datasets that address GIS user needs.

### **Business Drivers**

Growing use of GIS applications and products.

### **Objectives/Measure of Success**

Oconto County will continue to strive to have GIS datasets available and as accurate as possible to meet the needs of the GIS users.

## **Project Timeframes**

Ongoing and as needs arise.

## **Responsible Parties**

Oconto County Land Information and the Planning and Zoning Divisions. Primary staff for this project will be the Oconto County GIS Specialist and Oconto County Principal Planner.

## **Estimated Budget Information**

\$2,500 (2,500 per year)

## **Orthophotography Acquisition**

### **Project Description/Goal**

Continue to plan and budget for new orthophotography acquisition on a four to five year cycle.

### **Business Drivers**

Updated orthophotography for development of GIS datasets in addition to use by numerous county departments and other GIS users.

### **Objectives/Measure of Success**

Oconto County will budget annually in order to continue with the acquisition cycle.

## **Project Timeframes**

On a four to five year cycle. (most recent orthophotography acquired in 2014)

## **Responsible Parties**

Oconto County Land Information and the Planning and Zoning Divisions. Primary staff for this leading the project will be the Oconto County GIS Specialist and Oconto County Principal Planner.

## **Estimated Budget Information**

\$20,000 annually

## **Register of Deeds Digital Conversion**

### **Project Description/Goal**

Continue to convert records to digital formats and maintain necessary software applications.

### **Business Drivers**

Ability for users to access recorded documents thru web based applications.

### **Objectives/Measure of Success**

Oconto County will continue to work toward complete conversion of records to digital formats.

## **Project Timeframes**

Ongoing

## **Responsible Parties**

Oconto County Register of Deeds

## **Estimated Budget Information**

\$5,000 annually

## Support and Updates to E911 Mapping

### Project Description/Goal

Continue to update and enhance the E911 system.

### Business Drivers

Continued need for accurate E911 data and applications.

### Objectives/Measure of Success

Oconto County will continue to strive to have GIS applications available that meet the needs of the GIS users.

### Project Timeframes

Ongoing and as needs arise.

### Responsible Parties

Oconto County Land Information Division. Primary staff for this project will be the Oconto County GIS Specialist.

### Estimated Budget Information

\$5,000 *annually*

## Other Project Sections

### Projects Related to Strategic Initiative Grants

Oconto County plans to apply annually for strategic initiative grant funding. With the variable in project scopes and costs, Oconto County may include multiple projects in a given year to utilize the full grant amount.

### Ongoing Costs Not Associated with a Specific Project

Oconto County will incur an annual software maintenance cost of \$24,700 in 2016. It is anticipated that these maintenance costs will increase slightly from year to year. As part of the continuous enhancements to web applications, Oconto County will purchase a new webserver in 2016 at a cost of \$10,579. In conjunction with the server upgrade Oconto County will upgrade to ArcGIS Server 10.3 and Geocortex version 4.2 at a cost of \$7,500.

## Project Plan to Achieve Searchable Format (Benchmarks 1 & 2)

### Project Description/Goal

#### How searchable format will be met

- Oconto County will strive to meet the searchable format as outlined in Benchmark 1 and 2 in 2017 and by March 31, 2018 at the latest. Oconto County plans to submit data in the export format in 2016 and the new format in 2017; however, address records are not currently parsed out to the number of fields required by the state. This may delay achieving the searchable format beyond 2017, but implementation by March 31, 2018 should be attainable.

### Business Drivers

Oconto County Land Information staff will be coordinating with GCS to ensure parcel record attributes align with the required state format. A number of fields will need to be created, reformatted and/or renamed.

### Objectives/Measure of Success

The objective is to meet the searchable format for Benchmarks 1 & 2 (Parcel and Zoning Data Submission, Extended Parcel Attribute Set Submission) by the end of 2017 and by March 31, 2018 at the latest.

## Project Timeframes

Benchmarks 1 & 2 are anticipated to begin in 2016 and be completed in 2017.

## Responsible Parties

Oconto County Land Information Division staff will be coordinating the conversion of data into the new state format.

## Estimated Budget Information

This will involve multiple county staff devoting time to the project in addition to any costs to have GCS update current programs.

## Project Plan for Parcel Completion (Benchmark 3)

### Project Description/Goal

#### Current status of parcel data

- Oconto County currently has all parcels mapped and maintains on a quarterly basis. Of the twenty-three townships in Oconto County, parcel data has been updated in eighteen of twenty-three towns using survey grade PLSS monumentation. Parcel data in the three cities and three villages within Oconto County have been mapped using survey grade PLSS monumentation.

#### Goals

- Oconto County will continue to work toward updating the parcel data in the remaining five townships using survey grade PLSS monumentation. Completion of updates in one township per year is anticipated.

#### Planned approach

- Oconto County will work toward adopting ESRI's parcel fabric system once the remaining town parcel mapping is updated using survey grade PLSS monumentation. The county will continue to focus on remonumentation in an effort to complete the parcel mapping updates.

## Business Drivers

The county will work toward updating remaining townships using survey grade PLSS monumentation. The users of county GIS applications rely on accurate parcel mapping.

## Objectives/Measure of Success

All tax parcels are mapped to various levels of accuracy. The county will work toward updating the remaining townships (*5 of 23*) using survey grade PLSS monumentation.

## Project Timeframes

Oconto County will maintain parcel data set and update remaining township (*5 of 23*) parcel data using survey grade PLSS monumentation over the next five years.

## Responsible Parties

Oconto County Land Information staff will continue to update parcel data in remaining townships, provide ongoing mapping maintenance, and perform quality control checks.

## Estimated Budget Information

This work will involve various staff.

## Project Plan for PLSS (Benchmark 4)

### Project Description/Goal

#### Planned approach

- Oconto County planned approach for remonumenting, rediscovering, and establishing **survey-grade** coordinates for PLSS corners, and integrating corners into the parcel fabric. Due to cost, accessibility, or land ownership, lower-quality coordinates may be substituted. However, lower grade coordinates should be the exception, rather than the rule. In addition, counties may (*but*

are not required to) use Strategic Initiative grant funds to upgrade their PLSS from a NAD 27 coordinate system to a more current datum.

### Current status

- Of the 3,475 PLSS corners in Oconto County, approximately 2,513 have been remonumented with survey grade coordinates. Of these approximately 140 are located along the county boundary. Accuracy classes include survey-grade, sub-meter, and approximate.
  - **Survey-grade** – Coordinates collected under the direction of a professional land surveyor, in a coordinate system allowed by s. 236.18(2), and obtained by means, methods and equipment capable of repeatable 2 centimeter or better precision
  - **Sub-meter** – Accuracies of 1 meter or better
  - **Approximate** – Accuracies of within 5 meters or to coordinates derived from public records and other relevant information

### Goals

- Oconto County will attempt to re-monument with survey grade coordinates a minimum of 60 corners per year.

### Missing corner notes

- Oconto County will document any missing corner data. Many of the missing corners in Oconto County are located within public lands; these will be lower on the priority list for remonumentation. *(Often these will be justifiable exclusions, such as meander corners, corners on public forest land, etc.)*

### County boundary collaboration

- Oconto County will continue to collaborate with and share section corner information with neighboring counties. *(Brown, Forest, Langlade, Shawano, Marinette, and Menominee Counties).*

## Business Drivers

Oconto County Land Information staff will continue to work toward utilizing county surveyor staff time and/or contracting with local surveyors to complete survey grade remonumentation.

## Objectives/Measure of Success

Oconto County will work toward meeting 2016 and 2017 benchmark 4 requirements.

## Project Timeframes

At a rate of 60 corners per year it will take approximately 16 years to complete remonumentation with survey grade coordinates. Oconto County will work to increase the number of corners remonumented as budgets permit and/or staff are available. Oconto County will also try to prioritize remonumentation to areas that provide the most benefit.

## Responsible Parties

Oconto County Land Information staff will coordinate inventorying PLSS data, contracting work, and incorporating survey control.

## Estimated Budget Information

This work will involve various staff and at times and as budgets permit some contracted services.