

**CHIPPEWA COUNTY LAND INFORMATION PLAN
2015-2018**



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EXECUTIVE SUMMARY

About this Document. This document is a land information plan for Chippewa County prepared by the land information officer (LIO) and the land information council. By Wisconsin statute, “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 businesses and county residents.

WLIP Background. The WLIP, administered by the Wisconsin Department of Administration, is funded by document recording fees collected by register of deeds at the county-level. In 2015, Chippewa County received \$16,368 in WLIP grants and retained a total of \$83,632 in local register of deeds document recording fees for land information. Beginning in 2016, WLIP Strategic Initiative grants are projected to increase the county land information budget by \$50k per year.

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 Chippewa County. Land information is central to county operations, as many essential services rely on accurate and up-to-date geospatial data and land records. A countywide land information system supports economic development, emergency planning and response, and a host of other citizen services. The Chippewa 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 Land Records Modernization. The ultimate goal of land records modernization is to create an accurate and comprehensive land information database and internet tools that will not only benefit county employees, but will also benefit local municipalities, businesses and citizens of Chippewa County. Chippewa County strives to be recognized for its accurate and economical open-source webmapping site, gains in efficiencies by broadening the utilization of GIS, improvements in parcel mapping accuracy, and responsiveness to meeting the land records needs of residents and businesses.

Land Information Improvement Projects. To realize this mission, in the next three years, Chippewa County will focus on the following projects:

1. 100% PLSS remonumentation with survey grade GPS coordinates along the county boundaries. Significant reduction in the number of interior corners that need survey grade coordinates and tiesheets.
2. Geo-referencing of survey maps county wide.
3. Produce a hydrographic layer that includes navigable streams.
4. Expansion of mobile GPS/GIS technology.
5. Website development and hosting for improved access to land records.

The remainder of this document provides more details on Chippewa 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.

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
- Meet a June 30, 2017 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 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.

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)*

County Land Information Plan Timeline



County Land Information System History and Context

The previous land records modernization plan focused on the following items:

1. Completing and maintaining the in house digital tax parcel mapping program.
2. Updating and maintaining the public land survey system corner markers.
3. Continued upgrading of the digital photo imagery for countywide coverage.
4. Improving the county zoning and planning system by implementing a document storage and retrieval system linked to the GIS system.
5. Improve the document imaging in the Register of Deeds office by implementing 30 to 50 year back conversion of documents from microfilm to optical disk. Rescan missing, incomplete or poor quality documents from conversion. Clean up of legal descriptions on older documents. Microfilm documents not scanned. Update hardware and software for imaging as needed.
6. Create and maintain the internet web sites for the various Chippewa County departments.
7. Improve the utility of web-based GIS.

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.

In accordance with s. 59.72(3m), Wis. Stats., the Chippewa County Land Information Council includes:

- Register of Deeds
- Treasurer
- Real Property Lister
- Member of the county board
- Representative of the land information office
- A realtor or member of the Realtors Association employed within the county
- Emergency communications representative employed within the county
- County Surveyor
- 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.

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

County Land Information Council and Plan Workgroup

| Name | Title | Affiliation | Email | Phone |
|-------------------------|-----------------------------------|---|----------------------------------|--------------|
| * Doug Clary | Planning and Zoning Administrator | Chippewa County Planning and Zoning - LIO | dclary@co.chippewa.wi.us | 715-726-7941 |
| * Marge Geissler | Register of Deeds | Chippewa County Register of Deeds Office | mgeissler@co.chippewa.wi.us | 715-726-7993 |
| * Patricia Schimmel | Treasurer | Chippewa County Treasurers Office | pschimmel@co.chippewa.wi.us | 715-726-6113 |
| * Jean Krumenaur | Real Property Lister | Chippewa County Treasurers Office | jkrumenaur@co.chippewa.wi.us | 715-726-7831 |
| * Florian Skwierczynski | County Board Member | Chippewa County Land Information Council Chairman | fskwierczynski@co.chippewa.wi.us | 715-720-8359 |
| * Bruce Hayhoe Jr. | Realtor | Woods and Water Realty | brucejr@woodsandwater.com | 715-456-2256 |
| * Dennis Brown | Emergency Management Director | Chippewa County Emergency Government | dbrown@co.chippewa.wi.us | 715-726-7728 |
| * Samuel Wenz | County Surveyor | Chippewa County Land Records Division | swenz@co.chippewa.wi.us | 715-726-7931 |
| * Dennis Falkenberg | GIS Coordinator | Chippewa County Land Records Division | dfalkenberg@co.chippewa.wi.us | 715-738-2595 |
| Dan Masterpole | Land Conservationist | Chippewa County Land Conservation and Forest Management | dmasterpole@co.chippewa.wi.us | 715-726-4590 |
| Christi Haun | Information Technology Director | Chippewa County Information Technology | chaun@co.chippewa.wi.us | 715-726-7896 |
| | | | | |
| | | | | |

* Land Information Council Members designated by asterisk

2 FOUNDATIONAL ELEMENTS

Chippewa County has a land information plan that addresses development of specific datasets and/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.

Over the years, Chippewa County has invested the WLIP funds wisely and made significant gains in acquiring the Foundational Elements that have become the backbone of the Chippewa County Land Information System. This system and related mapping tools have become essential for many county departments and have intrinsic value to state agencies also.

FOUNDATIONAL ELEMENTS

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

Foundational Elements Information

Please refer to Appendix A for a listing of all the layers within the Chippewa County Land Information System. Each layer listed shows: 1) Layer Status, 2) Custodian, 3) Maintenance Frequency, and 4) The Standards that apply to those layers. Additional Information on specific elements are listed below.

PLSS

Public Land Survey System Monuments

Layer Status

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

| PLSS Layer Status | |
|---|--|
| Name | Status/Comments |
| Total number of PLSS corners (section, ¼, meander) set in original government survey | 3344 |
| Number and percent of PLSS corners that have been remonumented | 2958 or 88% |
| Number and percent of remonumented PLSS corners with survey grade coordinates | 1948 or 58% |
| Number and percentage of survey grade PLSS corners integrated into county digital parcel layer | All 1948 or 100% |
| Number and percentage of non-survey grade PLSS corners integrated into county digital parcel layer | All 1396 or 100% |
| Percentage of PLSS corners that have digital tie sheets (whether or not they have corresponding coordinate values) | 89% |
| 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 | 204 (coordinate values have been estimated for mapping purposes) |
| Approximate number of PLSS corners believed to be lost or obliterated | 518 |
| Total number of PLSS corners along each bordering county | EC-73 Dunn-51 Barron-25 Rusk-63 Taylor-38 Clark-25 |

| | | | | | | |
|---|---|----------------|------------------|----------------|-------------------|-----------------|
| Number and percent of PLSS corners remonumented along each county boundary | EC-73 100% | Dunn-48 94% | Barron-23 92% | Rusk-56 89% | Taylor-38 100% | Clark-24 96% |
| Number and percent of remonumented PLSS corners along each county boundary with survey grade coordinates | EC-54 74% | Dunn-39 81% | Barron-18 78% | Rusk-24 43% | Taylor-35 92% | Clark-10 42% |
| Does your county collaborate with or plan to collaborate with neighboring counties for PLSS updates on shared county borders? | Yes, we collaborate with the surrounding counties | | | | | |

Chippewa County Geodetic Control Network

Layer Status

- Locations of monuments and coordinate values are shown on the web mapping site

Custodian

- Local Control = Land Records Division
- HARN = Wisconsin Department of Transportation

Maintenance

- Local Control = Land Records Division
- HARN = Wisconsin Department of Transportation

Standards

- Local Control = Horizontal FGCS 2nd Order, class 1 accuracy, Published on Wisconsin County Coordinate System - North American Datum of 1983 (1991)
- HARN = Horizontal FGCS B-order or 1st Order accuracy, Published on North American Datum of 1983 (2007) – NAD83(NSRS2007)

Parcel Mapping

Parcel Geometries

Layer Status

- Chippewa County maintains parcel geometries for all of the parcels in Chippewa County
- 100% of Chippewa County's parcels are available in a commonly-used GIS format
- Chippewa County parcels are projected in the Wisconsin County Coordinate System(WCCS)- Chippewa County - North American Datum of 1983 (1991)
- Chippewa County's parcel polygon model directly integrates tax/assessment data as parcel attributes
- Chippewa County does not plan on implementing the Esri Parcel Fabric Data Model, and/or Esri's Local Government Information Model

Custodian

- GIS Coordinator

Maintenance

- Parcels are updated continuously and tax roll information is updated weekly

Standards and Documentation

Chippewa County maintains a Data Dictionary in XML format for parcel attributes listed in s. 59.72(2)(a) which is a human-readable form, with thorough definitions for each element/attribute name, and explanations of any county-specific notations

Assessment/Tax Roll Data

Layer Status

- Chippewa County utilizes GCS as a vendor to prepare assessment and tax roll data and tax bills
- The information is available online

Custodian

- Chippewa County Treasurer

Maintenance

- Tax roll information is updated daily

- Chippewa County has a five year agreement with GCS to maintain the parcel and tax info within their software which ends in 2020 unless extended

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 | ASSESSED_V | |
| Class of property, as specified in s. 70.32 (2)(a) | PROPCLASS | |
| Estimated fair market value | FAIR_MKT_V | |
| Total property tax | TOTAL_TAX | |
| Any zoning information maintained by the county | ZONEDIST | Zoning information is not required in DOR schema |
| Any property address information maintained by the county | SITEADDRESS | |
| Any acreage information maintained by the county | DEEDACRES GISACRES | DEEDACRES=TOTAL GISACRES=TOTAL - ROADWAY |

Non-Assessment/Tax Information Tied to Parcels

e.g., permits, easements, non-metallic mining, restrictive covenants
(See Appendix A)

ROD Real Estate Document Indexing and Imaging

Status

- **Grantor/Grantee Index.** Chippewa County uses Fidlar Technologies as a software vendor. A digitized grantor/grantee index from 1956 forward with continued quality control of previous conversion. Prior to 1956, paper index. All documents scanned to 1800's, conversion and indexing yet to be completed. Hire LTE to assist in completion.
- **Tract Index.** PLSS-based tract index requiring pin #'s on all documents transferring property. All Plats, Condo's and CSM's digitized, all other documents (deeds, mortgages, satisfactions, easements, covenants, right of way, metallic mining, restrictive covenants, declarations and many more) are digitized from 1956 forward. Integrated Fidlar product Monarch with tax assessment for all documents transferring property to link legal description and pin.
 - Give status and specify whether tract indexing is parcel PIN-based or PLSS-based. Also specify what sort of documents the county's tract indexing encompasses.
 - **Imaging.** All Plats, Condo's and CSM's are imaged and indexed. 1956 documents forward are imaged and indexed. All documents from 1850-1956 are scanned but not indexed or entered into tract index.

Custodian

- County Register of Deeds

Maintenance

- All digitized records backed up off site. Users provide assistance in quality control of data. Software vendor (Fidlar) reviews for technology updates.

Standards

- s. 59.43, Wis. Stats. Register of deeds; duties, fees, deputies.
- ch. 706, Wis. Stats. Conveyances of real property; Recording; Titles.
- 236.25 & 236.34 Recording of Plats & CSM's
- Wisconsin Register of Deeds indexing guidelines
- Office handbook – indexing standards

LiDAR and Other Elevation Data

LiDAR

Layer Status

- 1 foot contours county-wide from LiDAR flown by Sanborn Map Company Inc. in 2012

Custodian

- GIS Coordinator

Maintenance

- This is a static layer with no recent maintenance
- In the future certain areas may be flown and updated

Standards

- USGS LiDAR Guidelines and Base specifications v13.
- Vertical accuracies for the project were set to comply with table 2.3 of FEMA Procedure Memorandum No. 61 - Topography for an equivalent Contour Accuracy of 1 foot

LiDAR Derivatives

Layer Status

- LAS Files and a Digital Elevation Model are background files that are not displayed in the GIS

Custodian

- GIS Coordinator

Maintenance

- No maintenance

Standards

- Same as above

Orthoimagery

Orthoimagery

Layer Status

- WROC imagery flown in the spring of 2014

Custodian

- GIS Coordinator

Maintenance

- Update cycle is every three years

Standards

- WROC 2015 standards

Historic Orthoimagery

(See Appendix A)

Oblique Imagery

(See Appendix A)

Address Points and Street Centerlines

Address Point Data

(See Appendix A)

Land Use

Current Land Use

Layer Status

- Developed for the 2010 Comprehensive Plan

Custodian

- Zoning Administrator

Maintenance

- Every 5 years with the Comprehensive Plan update

Future Land Use

Layer Status

- Future land use maps were developed by the municipalities for the 2010 Comprehensive Plan

Custodian

- Municipalities and the Zoning Administrator

Maintenance

- As needed

Standards

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

Zoning

County General Zoning

Layer Status

- The county oversees the zoning for seven municipalities in Chippewa County

Custodian

- Zoning Administrator
- GIS Coordinator

Maintenance

- Yearly

Standards

- Each parcel within these municipalities is designated with a zoning code

Farmland Preservation

Layer Status

- This layer was created for the 2015 Farmland Preservation Plan

Custodian

- Zoning Administrator
- GIS Coordinator

Maintenance

- As needed

Standards

- A seven step process was developed to remove and add parcels eligible for the farmland preservation credit

Administrative Boundaries

Civil Division Boundaries

(See Appendix A)

School Districts

Layer Status

- The school districts layer was derived using the school code in the assessment roll for each parcel and the broken down into elementary school districts using school maps

Custodian

- GIS Coordinator

Maintenance

- As needed

Standards

- Mapping grade

Election Boundaries

Layer Status

- Twice a year annexation/ward changes are incorporated into the dataset

Custodian

- County Clerk
- GIS Coordinator

Maintenance

- Bi-yearly

Standards

- Legislative Technology Bureau Services data requirements

Public Safety

(See Appendix A)

Other Administrative Districts

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

(See Appendix A)

Other Layers

Hydrography Maintained by County

(See Appendix A)

3 LAND INFORMATION SYSTEM

LAND INFORMATION SYSTEM

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

– *Wis. Stats. section 16.967(1)(c)*

The WLIP seeks to enable land information systems that are both modernized and integrated.

Integration entails the coordination of land records

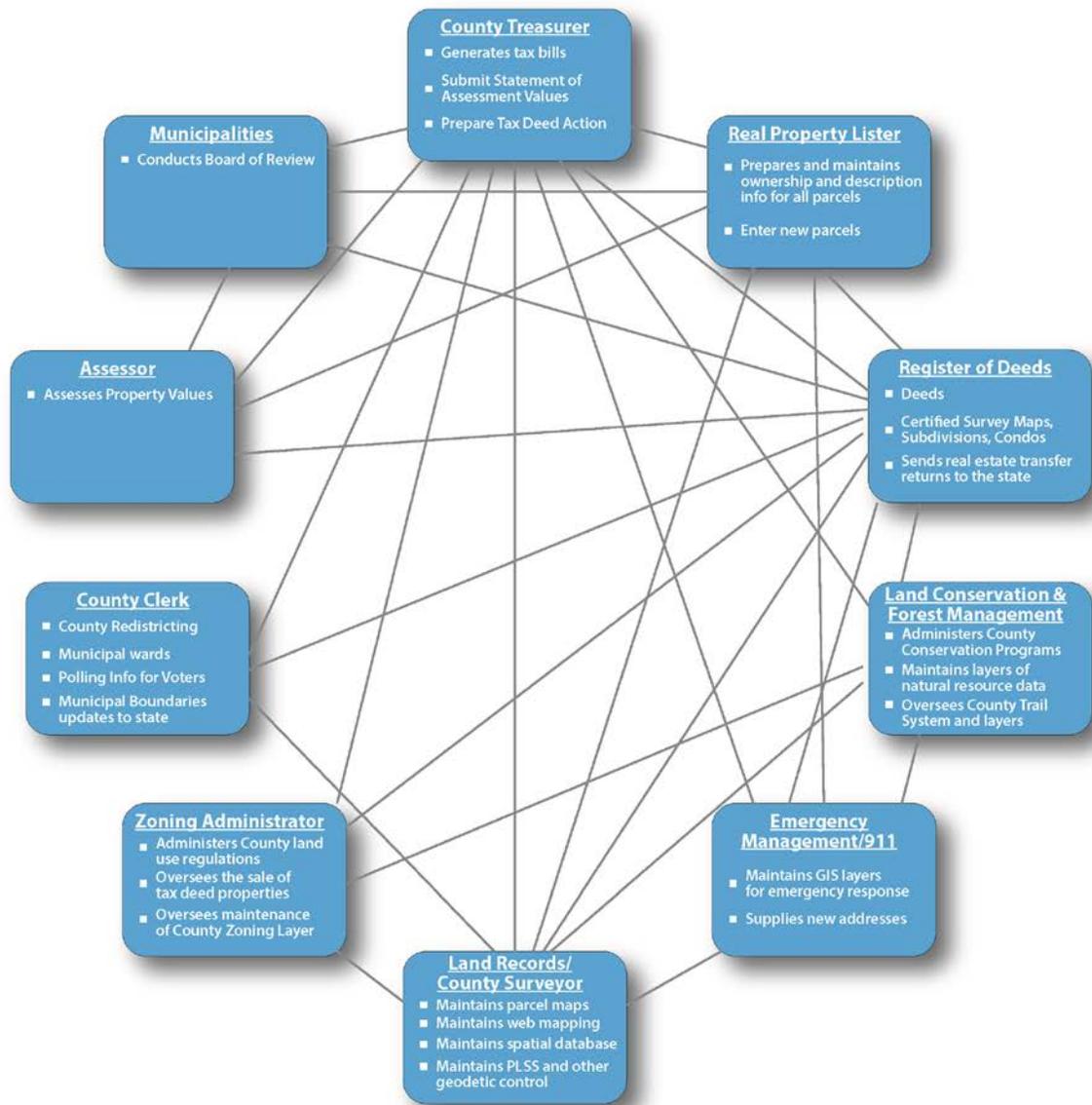
to ensure that land information can be shared, distributed, and used within and between government at all levels, the private sector, and citizens.

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

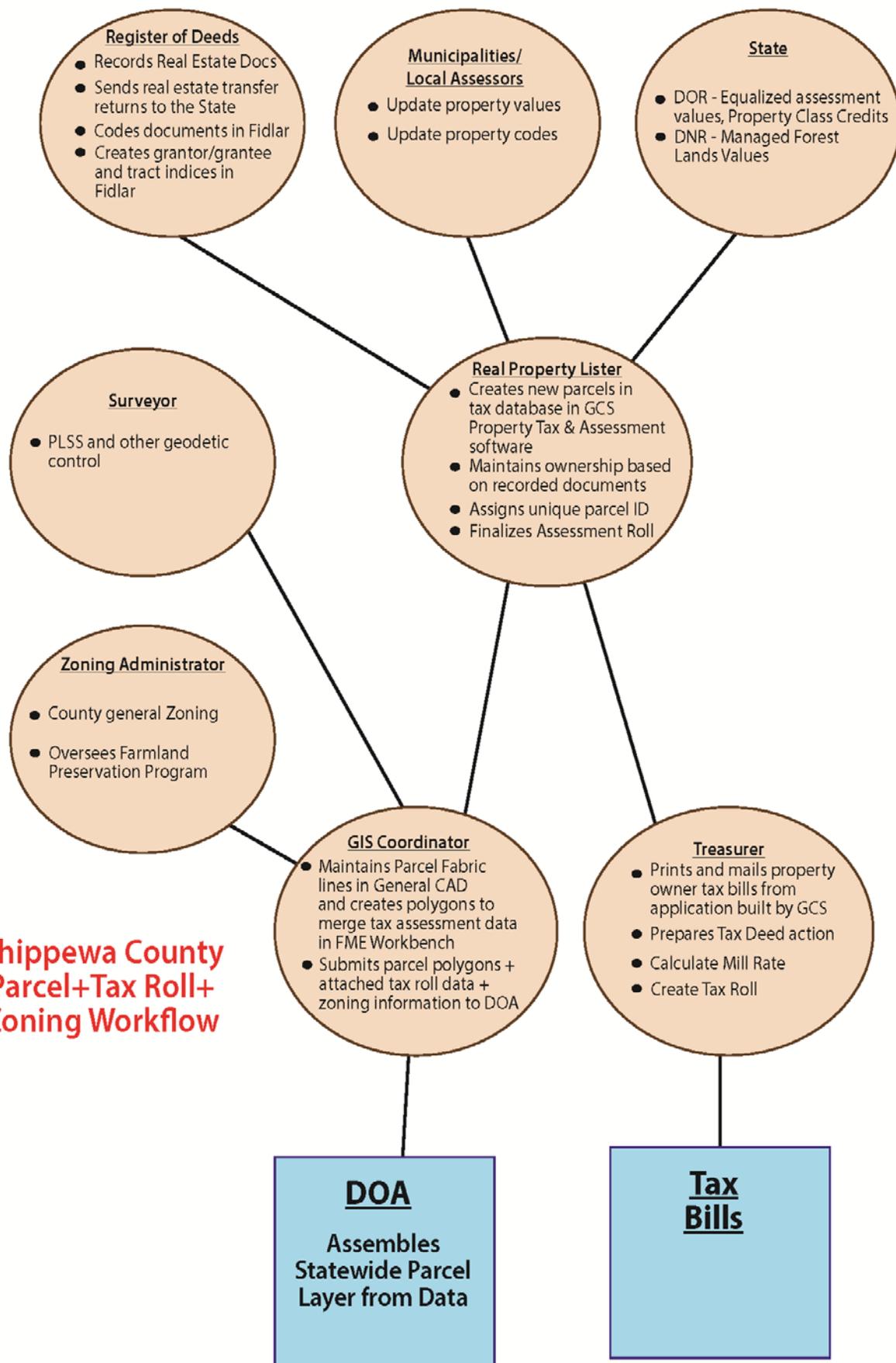
The design, development, and implementation of a land information system that *contains and integrates*, at a minimum, property and ownership records with boundary information, including a parcel identifier referenced to the U.S. public land survey; tax and assessment information; soil surveys, if available;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

Chippewa County Land Information System Workflow Diagram



Chippewa County Parcel+Tax Roll+ Zoning Workflow



Technology Architecture and Database Design

The hardware, software, and systems that Chippewa County uses to develop and operate computer systems and communication networks for the transmission of land information data are as follows: ArcGIS, QGIS, FME Workbench, Windows Server for flat files, PostgreSQL for spatial database server which is replicated to the cloud with Rackspace hosted by Houston Engineering Inc.

Metadata and Data Dictionary Practices

Metadata is created by the department which is listed as the layers custodian. Chippewa County utilizes the U.S.G.S. Metadata wizard tool which was developed for ArcCatalog. This software generates metadata consistent with the FGDC Content Standard for Digital Geospatial Metadata.

Municipal Data Integration Process

Data provided by municipalities are project specific and incorporated into county data sets if applicable.

Public Access and Website Information

| Type of Website | Software or App | 3 rd Party or Contractor | URL | Update Frequency/ Cycle |
|---|--|--|---|-------------------------|
| GIS webmapping site | Geomoose | Houston Engineering Inc. | http://mapping.co.chippewa.wi.us/ | Weekly |
| ROD land records search tools | Fidlar Technologies Laredo, Tapestry & Monarch | Fidlar Technologies | https://tapestry.fidlar.com/Tapestry2/Search.aspx www.landrecords.net https://ww2.revenue.wi.gov/RETRWebApp | Daily |
| RPL or tax parcel site | GCS Web Portal | GCS Software Inc. | https://cc-tax.co.chippewa.wi.us/GCSWebPortal/Search.aspx | As records are updated |
| Zoning information (PDF or WebApp format) | Geomoose | County Planning and Zoning Administrator | http://mapping.co.chippewa.wi.us/ | Annual |
| PLSS tie sheets | Geomoose | County Surveyor | http://mapping.co.chippewa.wi.us/ http://maps.sco.wisc.edu/PLSSFinder/ | Weekly |
| Other Free Data | FTP Site | GIS Coordinator | ftp://landrecords.downloads@ftp.co.chippewa.wi.us/free_data/ | Yearly |

Data Sharing

Availability to the Public

- Land Records Division - All completed data sets are viewable by the public upon request, and obtainable for a fee.
- Register of Deeds - Data is readily available to the public free of charge in house. Some data is available for searching free of charge online and some data is available at a subscription or one time use costs which includes the image. We continue to develop additional data available online.

Data Sharing Restrictions

- Land Records Division - Any data obtained from Chippewa County cannot be sold to a third party unless directly allowed by permission. This policy is obtained by user upon request of the data.
- Register of Deeds Data is available two ways: Heavy users – a contract is signed for units of time. One time users – a charge is assessed for each search but it includes the availability of the image and the convenience fee charged by the credit card company. Data is shared with any county department that requests it free of charge. Signed access agreement is requested at the time user name and password is assigned.

Government-to-Government Data Sharing

Chippewa County provides information to municipalities and other governmental agencies upon request.

Training and Education

- The GIS Coordinator hosts quarterly meetings of the GIS Users Group to bring together key contributors and users of the county GIS. Discussions revolved around data use, availability, standards, data sharing techniques, and training. The GIS Coordinator offers training on an individual or department basis on use of GIS software and web mapping applications. Both the GIS Coordinator and the County Surveyor attend yearly training seminars to keep current on skills.
- Register of Deeds attends WLIA annual and regional meetings.

4 CURRENT & FUTURE PROJECTS

This chapter lists the current and future land information projects Chippewa County is currently undertaking or intends to pursue over its planning horizon.

Current On-going Projects

Georeferencing of Survey Maps

Project Description/Goal

The goal is to georeference all surveys in the county and display a marker within the GIS webmapping which is linked to the document.

Business Drivers

The public can easily find surveys that may contain information about their property.

Objectives/Measure of Success

All surveys filed in the County Surveyor's office after April of 2015 have been scanned and georeferenced. As time permits the surveys that were filed before April of 2015 are being georeferenced. The final objective is to have all surveys within Chippewa County georeferenced.

Project Timeframes

The project started in April of 2015 and will continue into the future.

Responsible Parties

The County Surveyor and the GIS Coordinator.

Estimated Budget Information

See the table on page 18.

Website Development

Project Description/Goal

To maintain and improve functionality of our web mapping site.

Business Drivers

The public can access information and web mapping tools that make it easy to gain the information they need about property in Chippewa County.

Objectives/Measure of Success

Each year we improve the functionality of our web mapping site by providing tools that have been requested by the users.

Project Timeframes

Each year we have a certain number of hours of development time budgeted for developing tools and/or updating our web mapping system.

Responsible Parties

GIS Coordinator and staff of Houston Engineering Inc.

Estimated Budget Information

See the table on page 18.

Expansion of Mobile GPS/GIS Technology

Project Description/Goal

Enable the zoning inspectors to enter data and follow up on permit processes on mobile devices while performing field activities.

Business Drivers

Efficiencies will be gained for staff in Planning and Zoning along with more detailed information in a searchable format. The public will have access to some permit information on the website.

Objectives/Measure of Success

Describe the objective/measure of success for the project and any defined completion milestone(s).

Project Timeframes

Provide the start and end dates for the project, as well as any significant milestone dates.

Responsible Parties

List the staff responsible for the various aspects of the project.

Estimated Budget Information

Give an estimated budget for project costs, and the source of funding to be used. This is a *projected*, *estimated* budget to aid planning efforts.

Future Projects

Hydrographic Layer

Project Description/Goal

Produce a single hydrographic layer that conforms to FEMA and DNR standards for planning purposes.

Business Drivers

To have one hydrographic layer that replaces old layers and reflects new and more accurate data sets. This layer would be available to county departments and the public.

Objectives/Measure of Success

The multiple old layers would be replaced by one new layer that is approved by all.

Project Timeframes

The first step is to make current information available to a vendor for use as a test project. This will yield accurate budget and timeframe information. The test project will be completed by December 2016.

Responsible Parties

GIS Coordinator, Zoning Administrator, County Surveyor, LCFM engineering staff, Houston Engineering Inc.

Estimated Budget Information

The test project will cost approximately \$5,000. The not to exceed total cost is \$40,000.

Register of Deeds Indexing Project

Project Description/Goal

Conversion of scanned images into tract index. Index and quality control of all documents to 1800's.

Business Drivers

Contracted with Fidlar Technologies to scan all documents for Register of Deeds department.

1. Need to archive paper records.
2. Create accessibility to public for certain records.
3. Reduce storage needs for paper documents.

Objectives/Measure of Success

Objective/goal is to have all Chippewa County real estate land records digitized and accessible to the public.

Project Timeframes

Start 2017 with a completion date of 2021.

Responsible Parties

Register of Deeds staff with hired LTE.

Estimated Budget Information

Estimating \$20,000 per year with a five year total of \$100,000.

Aerial Imagery Project

Project Description/Goal

This is a recurring project every three years. It supplies up to date 6 inch pixel orthophotos for the entire county as a backdrop within the GIS. Oblique photos are also requested approximately every six years to assist emergency management.

Business Drivers

Updated Orthophotos are a necessary part of the county GIS web mapping. There are many changes that happen each year to the landscape which makes it necessary to obtain new photos. These photos are made available to all county departments and the public.

Objectives/Measure of Success

To provide an up to date orthoimage every three years to stay current with the changing landscape.

Project Timeframes

Flight scheduled for spring of 2017.

Responsible Parties

County Surveyor, Zoning Administrator, GIS Coordinator.

Estimated Budget Information

Estimated cost is \$130,000.

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

Project Description/Goal

How searchable format will be met

- Many of the requirements of Benchmark 1 & Benchmark 2 have already been achieved. The parcel layer dataset has been joined to the tax assessment roll with all of the required attributes included according to the element occurrence standard. To fulfill the remaining requirements the following items will need to be addressed:
- Invalid parcel geometries in FileGDB
 - Trouble shooting of programming used to build the parcel data set and the resolution of non-valid boundaries produced in that process
 - Verify no PARCELID has more than one geometry
- Verify condo geometries with the state.
 - Create correct boundaries if current is not correct
- Verify full data set
 - Compare the parcel geometry data set values with tax roll assessments to verify that there is a 1:1 ratio, with no values missing
- Build new County Zoning Layer with all required attributes
 - Create geometries of Zoning information which is currently in CAD format, and attach the required attribute information
- Build new Farmland Preservation special purpose zoning layer
 - Filter parcels for this layer and attach required attributes

Business Drivers

The *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* is a requirement for Strategic Initiative grant eligibility.

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 March 31, 2016.

Project Timeframes

January 1, 2016 thru March 31, 2016.

Responsible Parties

GIS Data - Dennis Falkenberg

General Zoning - Doug Clary

Farmland Preservation - Doug Clary and Dan Masterpole

Estimated Budget Information

It is estimated that it will take 50 hours for the GIS Coordinator to complete this project.

Project Plan for Parcel Completion (Benchmark 3)

Project Description/Goal

Current status of parcel data

- All 49,753 parcels are in digital format.

Goals

- Number of parcels to be added for the grant project period = none.

Planned approach

- The parcel fabric is complete.

Project Plan for PLSS (Benchmark 4)

Project Description/Goal

Planned approach

- 100% completion of this benchmark will not be possible during the next three years. However, significant progress will be made toward that goal.
- The Chippewa County Surveyor will give first priority to the 269 PLSS corners along the county boundary. In cooperation with the surrounding county surveyors, the coordinates of all county boundary corners will be normalized to match the coordinates of the corresponding adjacent county to the greatest extent possible.
- Second, the county surveyor will re-monument, rediscover, and establish survey-grade coordinates for interior PLSS corners. This phase of the project will be completed one township at a time. This will allow for a smooth integration into the parcel fabric.
- The 54 PLSS corners within the county forest will have the lowest priority.
- If there are funds available, private contractors may be hired to complete additional PLSS corners.

Current PLSS status

- Total number of corners = 3344
- Corners with survey grade coordinates = 1581
- Corners with sub-meter coordinates = 865
- Corners with approximate coordinates = 898
 - includes 518 corners with monuments and tiesheets
 - includes 380 corners with no record after the original government survey
- Total number of corners that need work = 1763

PLSS Coordinate Designations

Survey-grade – Wisconsin County Coordinate System (WCCS) Chippewa County collected under the direction of a professional land surveyor, with 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 and Timeframe

- 100% completion of the PLSS corners along the county boundary with survey grade coordinates by January 2017
- 100% completion of the PLSS corners located in Township 28 North, Ranges 10, 09, 08, and 07 West with survey grade coordinates by December 31, 2018.
- 100% completion of the PLSS corners located in Township 29 North, Ranges 10, and 09 West with survey grade coordinates by December 31, 2018.
- The County Surveyor and the GIS Coordinator are responsible for integrating the PLSS corners into the parcel fabric. The corners along the county boundary will be incorporated first with the other corners being integrated as a group when a township (36 sections) is completed.
- Of the 1763 corners that need work in Chippewa County this will address 267 corners that currently do not have survey grade coordinates. In addition, it will finalize the section corners along the county boundary, and finalize the section corner positions within 6 townships or 216 sections.

Business Drivers

The *Project Plan for PLSS* is a requirement for Strategic Initiative grant eligibility.

Objectives/Measure of Success

The objective is to complete as many PLSS corners as possible by December 31, 2018.

Responsible Parties

The County Surveyor and the GIS Coordinator.

Estimated Budget Information

See table.