

# Wisconsin State Cartographer's Office

*Wisconsin Land Survey Network*

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Program Specialist

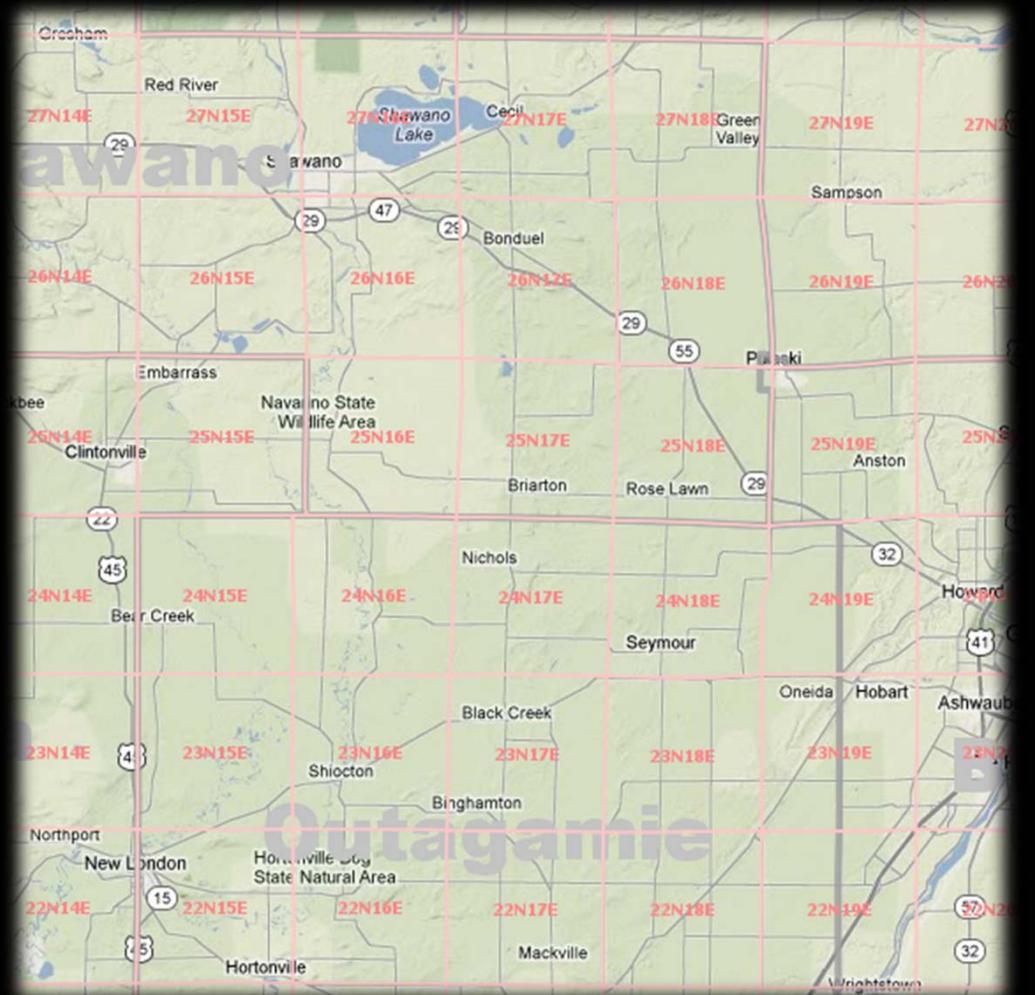


# Overview

- Wisconsin Land Survey Network Pilot Project
- Project goals and objectives
- Results to date
- Realizations
- Next steps

# *Wisconsin Land Survey Network*

## *A Statewide (geospatial dataset) Representation of the PLSS*

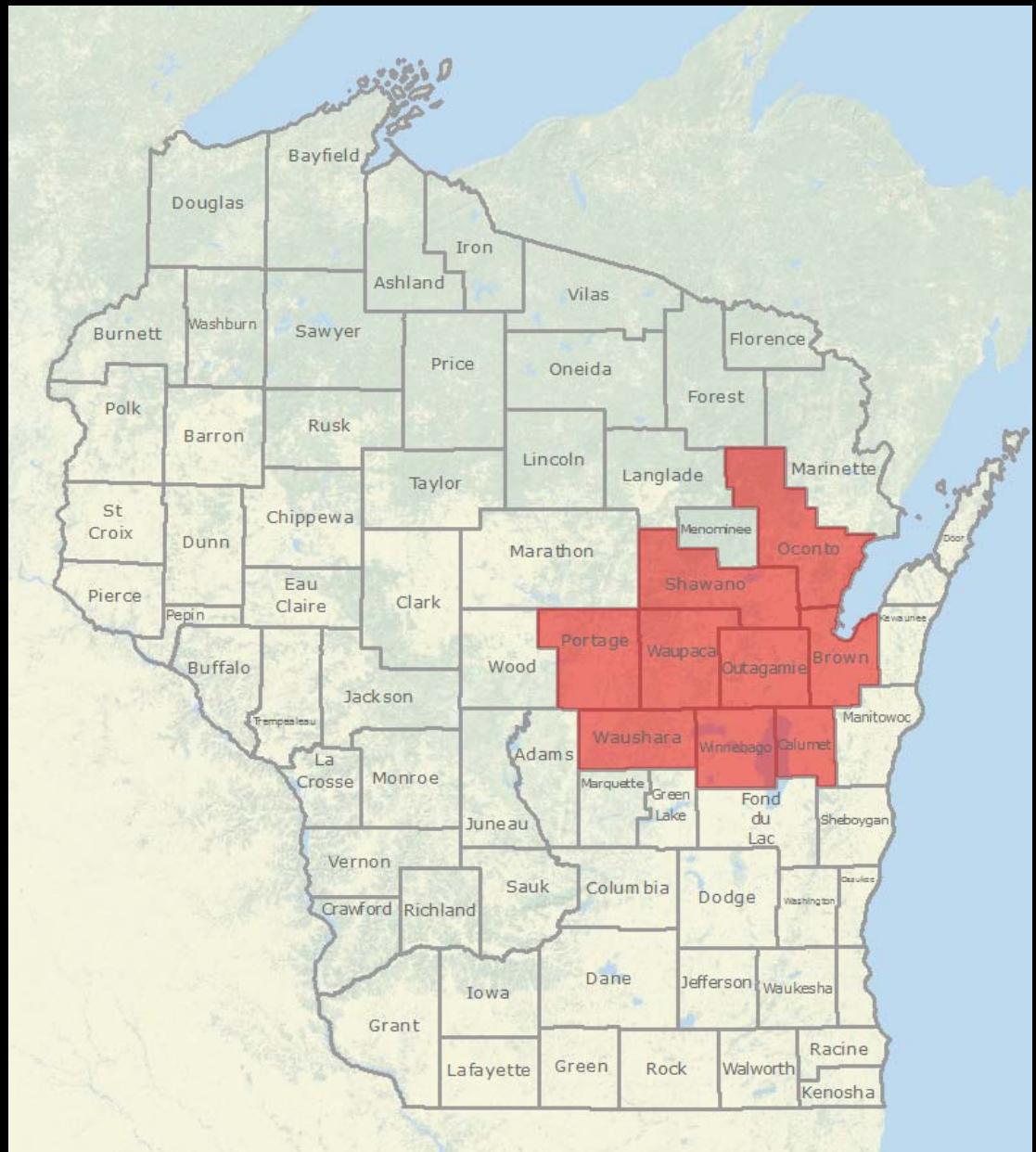


# Goals & Objectives

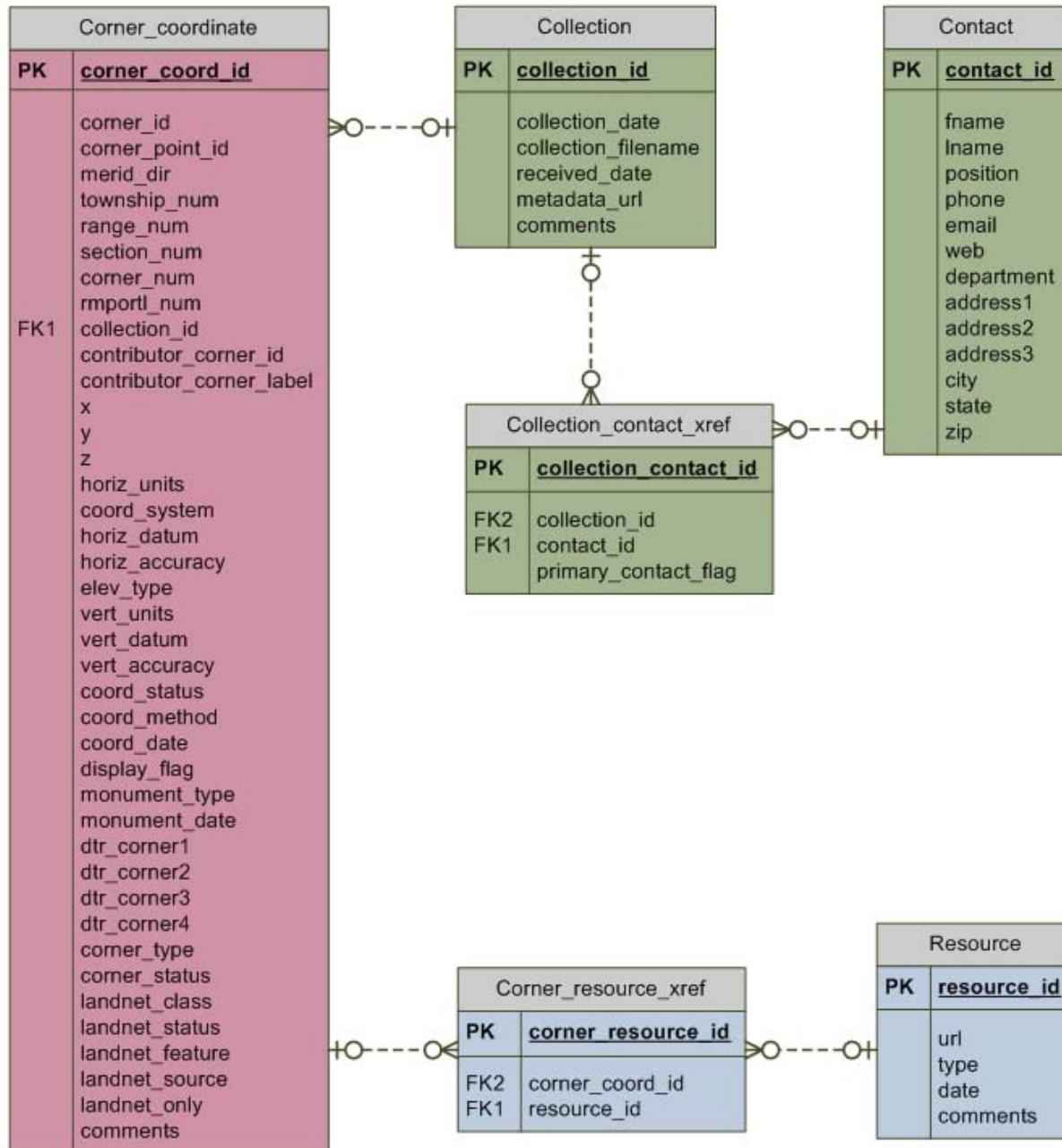
- Improved dataset of statewide PLSS data
- Improved coordinates in participating counties
- Integration of Landnet where local data unavailable
- Replicable data model for statewide data integration
- Broad data access
- Sustainable

# Pilot Project Study Area

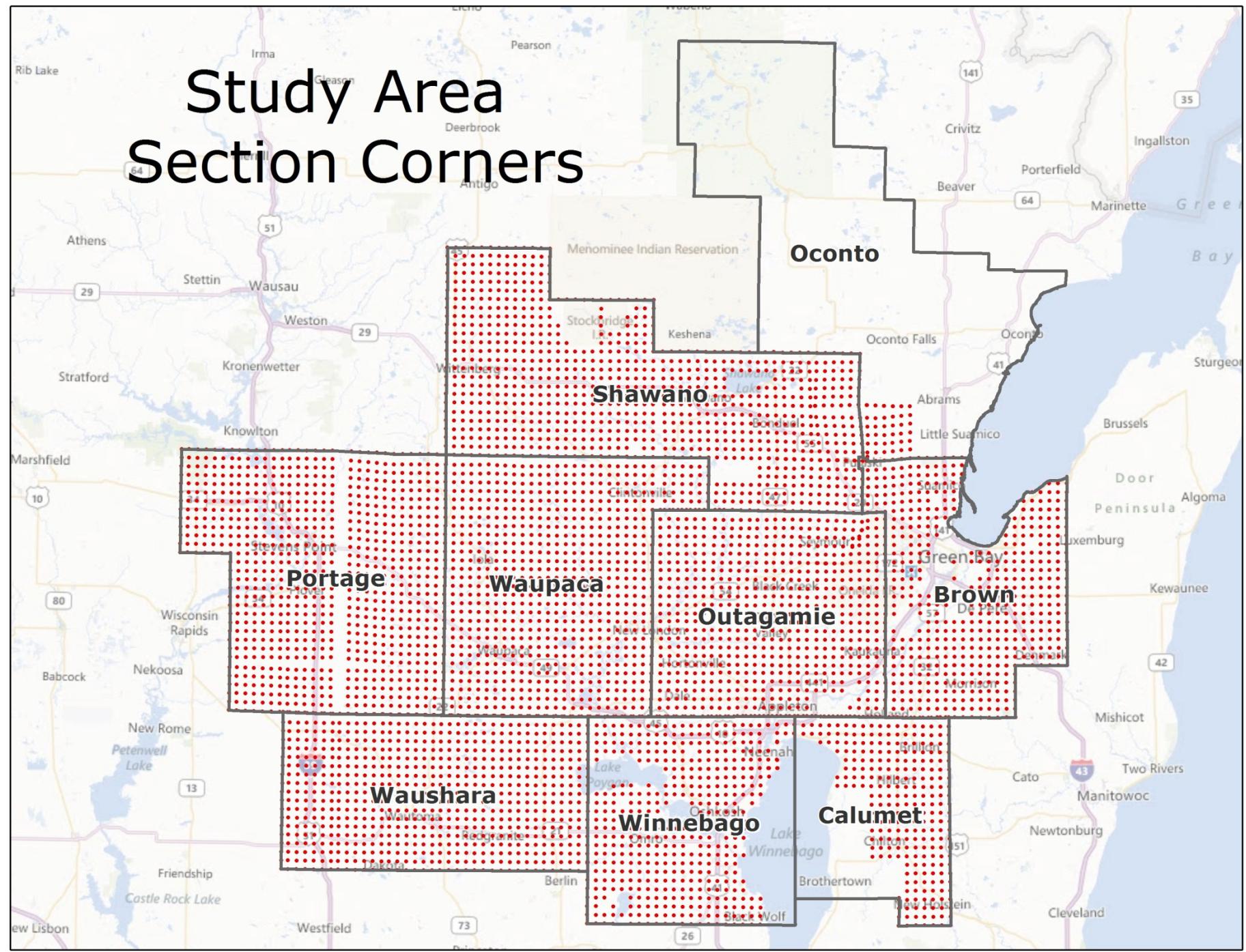
- Varied status of remonumentation
- Abundance of diverse meander features
- Non-PLSS areas
- Data availability



Proposed SCO PLSS Coordinate Model, Feb 2012 (version 1)



# Study Area Section Corners



# Coordinate Accuracy

- Number of Landnet section corner points in study area: **6,184**
- Number of county section corner points in study area: **5,491**

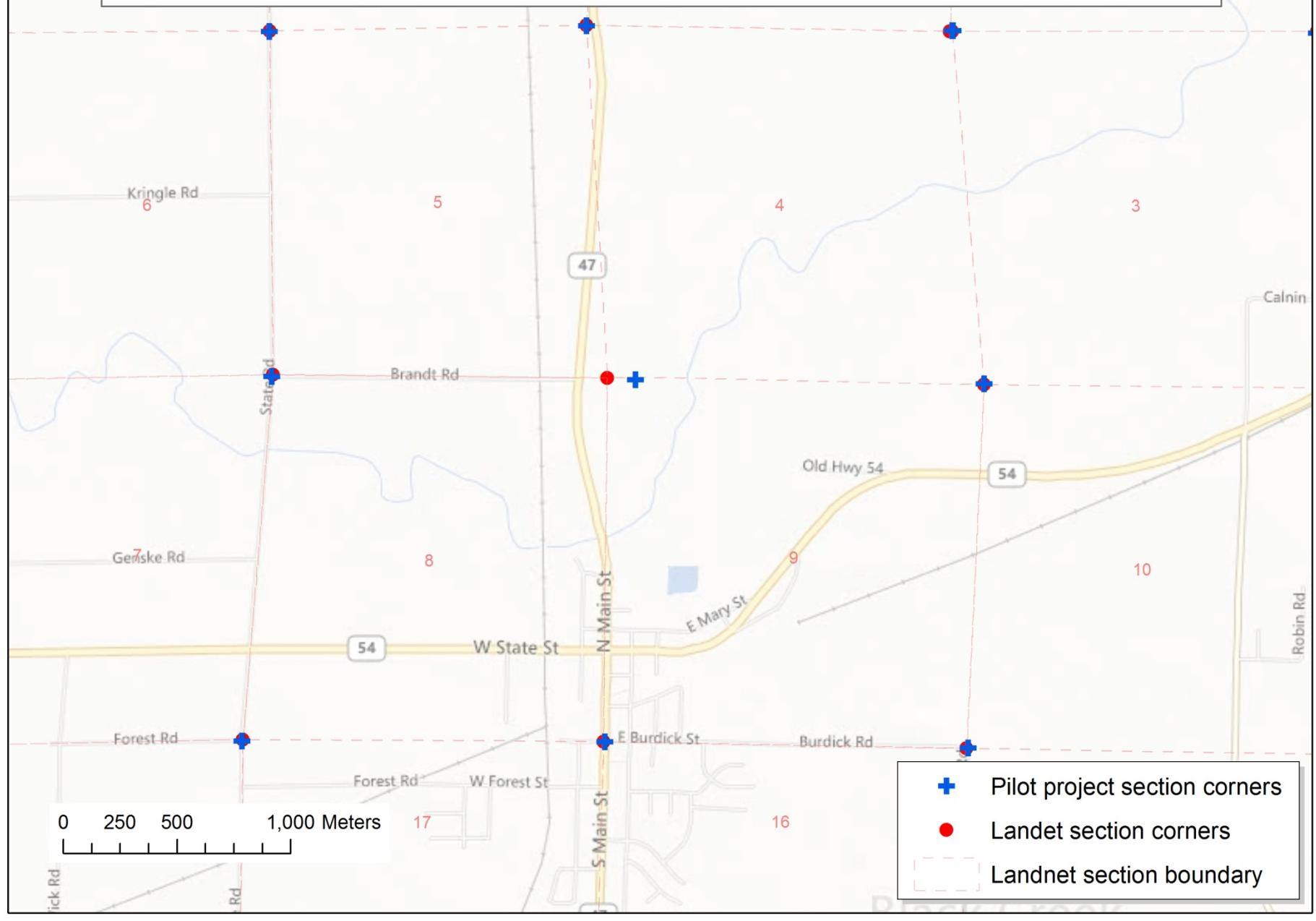
# Coordinate Accuracy

Mean distance between Landnet and county  
corner points: **8.33 m**

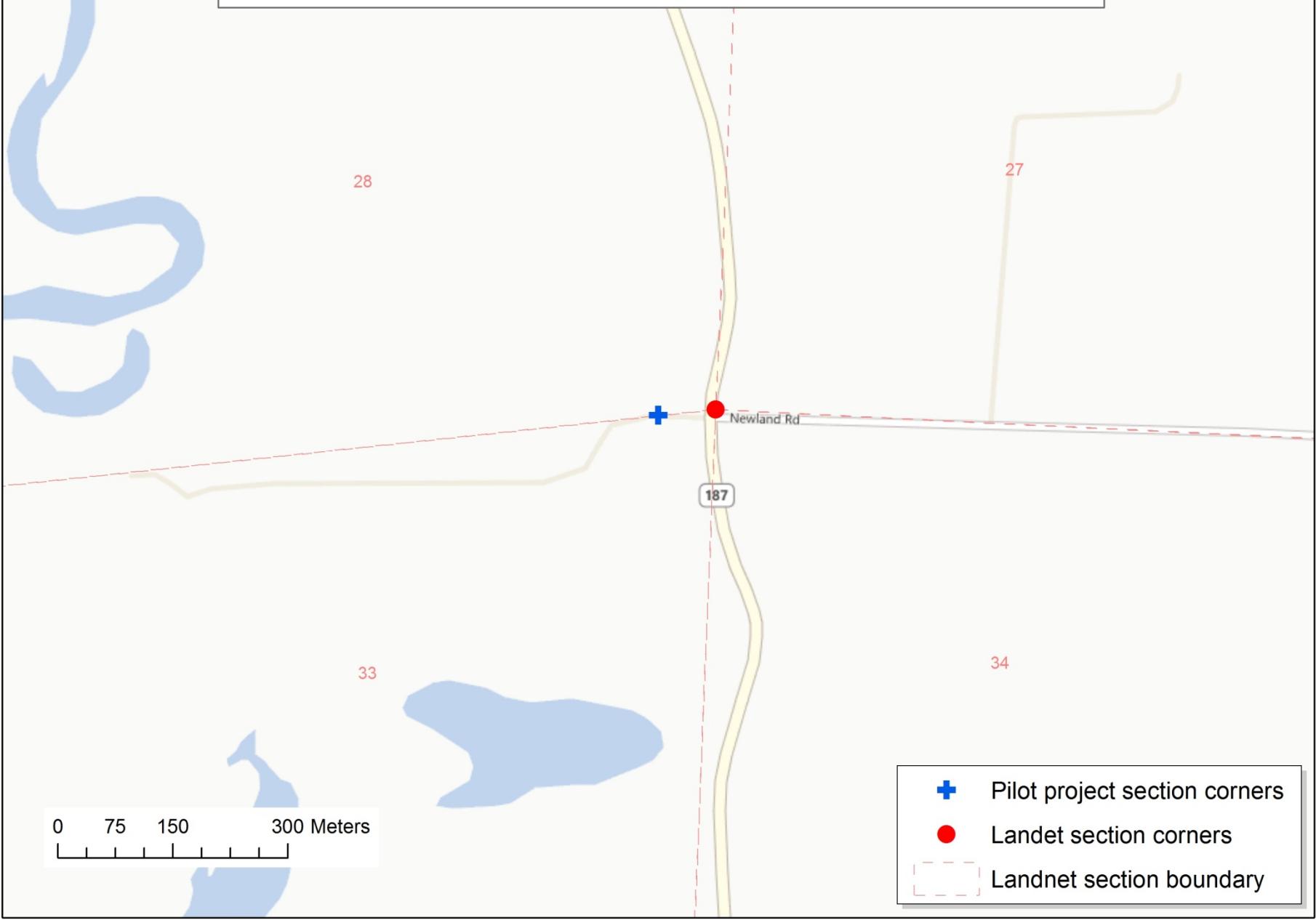
Maximum distance: **124.95 m**

Minimum distance: **0.05 m**

# County vs. Landnet Maximum Distance Points



## Sample Section Corner Comparison



# Expectations vs. Experience

<u>Expectation</u>	<u>Experience</u>
Automated data ingestion	Resource intensive
County x, y data	Limits usefulness
Pin cushion effect	Very minimal
Unique corner point i.d.	Resource intensive
Automated indexing assignment	Many datasets include indexing

# Next Steps

1. Townships
2. Quarter-sections
3. Quarter-quarter sections
4. Half-quarter sections?
5. Half quarter-quarter sections?
6. Primary display point determination
7. Lines
8. Polygons

# Project Expecations

## Phase I

- Pilot study using nine counties
- Solicit partners and support
- Finalize data model and data integration procedures
- Geodatabase of study counties PLSS data

## Phase II

- Statewide coverage (non-PLSS areas – long lots, metes & bounds, etc.)
- Distribution network (web-mapping application, download)

# PLSS Finder

County data available  
on PLSSFinder

- Existing (32)
- Future (12)
- Not available (28)

<http://maps.sco.wisc.edu/PLSSFinder/>

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# Project Team



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