Problems and Challenges faced in mapping Trails for Urbanized areas of the Fox Cities and Oshkosh
Fox cities urbanized area
FOX CITIES
Past Efforts of Data Gathering

- 2005 - GIS data was received from the local municipalities, trails groups, and non-profits such as the Fox Cities Greenways.

- 2006 - EC Staff was part of a taskforce planning team of park and rec professionals to produce a Fox Cities Trails Brochure – A comprehensive look at existing facilities / current trails – A snap shot in time.

- 2007 - Data became available as new trails were being built and developed. 2007 geared an update of the brochure only 1-year later.
The last brochure update was completed in 2010 and utilizes the Fox Cities Chamber of Commerce Visitor area designations. East Central used these designations to map the current and planned trails for the MPO area:

- **APPLETON***
  - Appleton

- **FOX-WEST**
  - Grand Chute, Greenville

- **HEART OF THE VALLEY***
  - Little Chute, Combined Locks, Kimberly, Darboy, Kaukauna

- **WATERFRONT**
  - Neenah-Menasha

*The Town of Harrison is split between Appleton and HOV*
Contacted all municipalities in the Urbanized area and asked them for trails and sidewalk data where available.

Data from Park & Rec Plans were also taken into account as well as completed Bike and Ped Plans and the Safe Routes to School program.

The data took awhile to receive and we are still waiting on a few requests. Process begun in early 2012.

Issue discovered - each municipality in the UAB/MPO has its own coding scheme. (Not surprising)

Legend - many trail categories existed which provided a challenge in mapping. (off-road, on-street)
# A Data Checklist was developed – Still in Progress

<table>
<thead>
<tr>
<th>Fox Cities Metropolitan Planning Area (MPA)</th>
<th>Existing bike/ped plan?</th>
<th>Comp plan address bike/ped?</th>
<th>Off-street bike/ped facilities data?</th>
<th>On-street bike/ped facilities data?</th>
<th>Sidewalk data?</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Appleton</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>City of Kaukauna</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Contacted</td>
</tr>
<tr>
<td>City of Menasha</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>City of Neenah</td>
<td>Yes, 1997</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Village of Combined Locks</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Village of Kimberly</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Contacted</td>
</tr>
<tr>
<td>Village of Little Chute</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Some</td>
</tr>
<tr>
<td>Village of Wrightstown</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>Incomplete</td>
<td>Only on KK</td>
</tr>
<tr>
<td>Town of Buchanan</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>Incomplete</td>
<td>None</td>
</tr>
<tr>
<td>Town of Center</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Incomplete</td>
<td>None</td>
</tr>
<tr>
<td>Town of Clayton</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Ellington</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>Incomplete</td>
<td>None</td>
</tr>
<tr>
<td>Town of Freedom</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>Incomplete</td>
<td>None</td>
</tr>
<tr>
<td>Town of Grand Chute</td>
<td>In Progress</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Town of Greenville</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Harrison</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Contacted</td>
</tr>
<tr>
<td>Town of Kaukauna</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Menasha</td>
<td>In progress</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Neenah</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Vandenbroek</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>None</td>
</tr>
<tr>
<td>Town of Vinland</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>Incomplete</td>
<td>None</td>
</tr>
<tr>
<td>Town of Woodville</td>
<td>No</td>
<td>Yes</td>
<td>Incomplete</td>
<td>No</td>
<td>None</td>
</tr>
<tr>
<td>Oshkosh Metropolitan Planning Area (MPA)</td>
<td>Existing bike/ped plan?</td>
<td>Comp plan address bike/ped?</td>
<td>Off-street bike/ped facilities data?</td>
<td>On-street bike/ped facilities data?</td>
<td>Sidewalk data?</td>
</tr>
<tr>
<td>City of Oshkosh</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Town of Algoma</td>
<td>No</td>
<td>Yes</td>
<td>Inc in City Bike / Ped Plan</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Town of Black Wolf</td>
<td>No</td>
<td>Yes</td>
<td>Inc in City Bike / Ped Plan</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Town of Nekimi</td>
<td>No</td>
<td>Yes</td>
<td>Inc in City Bike / Ped Plan</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Town of Omro</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Town of Oshkosh</td>
<td>NO</td>
<td>Yes</td>
<td>Inc in City Bike / Ped Plan</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Key discrepancies from the data gathered:

* All Municipalities had their own trail categories.
* Existing regional data gathered from the WDNR and other state sources didn’t match.
* Proposed vs. Planned trails added to the Existing trails caused confusion.
* Overlapping of trails, i.e. Paper Trail.
* Type and Names of trails not always present in data.
EXAMPLES OF DIFFERENT DATA FIELDS

CITY OF NEENAH
Shape and Tag field only

TOWN OF GRAND CHUTE
Shape and Layer field only

Town of Harrison
Type, Status, Name, Surface and Length
Data discrepancies

Blue line is existing regional data, Red is from City.

Neenah Area – Riverside Park
* Utilizes already existing trails and proposed trail-ways as it overlaps these features on the map(s).
* Like the Green Circle trail in Portage County, this trail’s vision is to be a circle around the Fox Cities with interurban trail-way connections inside the Fox Cities region.
* Like the spokes of a wheel. Look familiar?
* Each colored spoke represents a trail interconnection into the urban center of the Fox Cities from the surrounding circle – the Paper Trail.
Oshkosh urbanized area
Fortunate in Oshkosh -

The City recently completed their Bicycle and Pedestrian plan September, 2011.

Fresh and new data with proposed and existing routes.

EASY RIGHT?
The City also used different trail categories.

Oshkosh’s attributes for use in their city’s bike and ped plan =

Dashed Sign & Shareway, Dashed Signed, Sign & Strip Sign & Shareway & Offroad, for its Bike Routes.
For Bike Routes many Categories also Existed:

* Similar but still different than all data received.
* Lots of categories but close in description.
* Even longer when you add in Oshkosh with the Fox Cities.
So how do we join and merge the data to be more regionally uniform?

POSSIBLE SOLUTIONS:

1. Group the type of trail - Off Road Paved, Off Road, On-Street Bike, Sidewalk, Proposed.

2. Develop Sub-categories depending on level of detail needed - off and on road facilities could be grouped to generalize per municipalities based on data received. i.e. Surface Type, Name of Trail etc. Field work may be needed.

3. Attributes could be changed to accommodate what is needed in the plan document - project specific standards for the Fox Cities and Oshkosh MPO areas.
Areas and Data we are still missing

City and Town of Kaukauna – Sidewalks and Trails
Village of Combined Locks – Sidewalks and Trails
Village of Little Chute – Additional Sidewalks
Village of Kimberly – Sidewalks
Village of Wrightstown – Sidewalks and Trails
Town of Algoma - Additional Trails( if available, Cty data used)
Town of Black Wolf - Additional Trails( if available, Cty data used)
Town of Center – Additional Trails ( if available, Cty data used)
Town of Clayton – Additional Trails ( if available, Cty data used)
Town of Ellington – Additional Trails( if available, Cty data used)
Town of Freedom - Additional Trails( if available, Cty data used)
Town of Grand Chute – New data once plan is finished (planned)
Town of Menasha – New data once plan is finished (planned)
Town of Nekimi - Additional Trails( if available, Cty data used)
Town of Omro - Additional Trails( if available, Cty data used)
Town of Vandenbroek - Additional Trails( if available, Cty data used)
Town of Vinland - Additional Trails( if available, Cty data used)
Town of Woodville - Additional Trails( if available, Cty data used)
GIS trails data were pretty much non-existent until recently. Data is just now starting to be created 2005-2010, to present.

Utilizing a GPS unit will provide ground-level accuracy. - The Town of Greenville has already taken this approach in mapping of their trails. ECWRPC hopes to do the same as we move through the data creation process and merging but may be a separate project based on the grant budget available.

PRELIMINARY MAPPING COMPLETED - ECWRPC staff was able to heads up digitize current trails on the ground using ARCGIS software and current orthophotography with Bing Maps Birds Eye View where voids existed.

Obtaining Sidewalks data is still a challenge – we are missing many areas in the Heart of the Valley from the list mentioned.
WE NEED YOUR HELP!

* There are many gaps yet to filled and much to review on the accuracy of the data itself - both for the Proposed and Existing trails data.
* Missing sidewalks for Combined Locks, Kimberly, Kaukauna, parts of Little Chute, etc.
* Please take a look at the maps we have presented. Is our data correct, accurate? Does the mapping need editing? *(More than likely yes!)*
* **You** are the resource we need to get this plan done correctly and have it be a viable product for the future planning of our trailways.
Contact information:

* **Trish Nau**
* GIS Coordinator / Recreation Planner
* East Central Wisconsin Regional Planning Commission
* 400 Ahnaip Street, Suite 100
* Menasha, WI  54952

* Phone:  920-751-4770 x6814
* Fax:  920-751-4771
* [www.eastcentralrpc.org](http://www.eastcentralrpc.org)
* Email:  t nau@eastcentralrpc.org