

A guide to preparing the transportation element of a local comprehensive plan

# Transportation Planning

resource  
guide



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transportation element of  
a local comprehensive plan

**March 2001**

Wisconsin Department of Transportation  
Division of Transportation Investment Management  
Bureau of Planning

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Dear Transportation Partner:

I am pleased to present to you the *Transportation Planning Resource Guide*.

This Guide was developed in response to the Comprehensive Planning Legislation passed under the 1999–2001 Wisconsin State Biennial budget. The Legislation requires that by January 1, 2010, all programs, actions and decisions of a community be consistent with the adopted local comprehensive plan. The purpose of this Guide is to provide you with basic transportation planning related information to help you develop the Transportation Element of your community's comprehensive plan. This Guide is designed to provide an understanding of the processes important to transportation planning.

The Guide was developed in partnership with a steering committee representing transportation, environmental and local government interests. The committee continually provided suggestions on means to improve the Guide and helped ensure that the Guide was designed to provide an understanding of the processes important to transportation planning.

In closing, I am confident the Guide will help you in preparing your community's Transportation Element.

Sincerely,

A handwritten signature in black ink that reads "Kenneth J. Leonard".

Kenneth J. Leonard  
Chairperson of Steering Committee

## Acknowledgments

This Guide was prepared by the Wisconsin Department of Transportation (WisDOT) in collaboration with a Steering Committee comprised of internal and external stakeholder interests.

It is the result of extensive writing efforts that involved numerous individuals throughout its development. Sincere appreciation is extended to the Steering Committee whose members are listed here, and to the individuals who participated at the Roundtable discussion. Additionally, special thanks goes to the WisDOT Transportation Districts, the Office of Policy and Budget, the Division of Transportation Infrastructure Development, and the Division of Transportation Investment Management for their review and input as the document was being developed.

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# Chapter 1 Introduction

## **Wisconsin's Comprehensive Planning Legislation**

The Comprehensive Planning Legislation, passed under the 1999–2001 Wisconsin State Biennial budget, requires that by January 1, 2010, all programs, actions and decisions of a community be consistent with the adopted local comprehensive plan (§66.1001). In addition, the local plans are required to have at minimum a 20-year plan horizon and include, at a minimum, the nine elements identified by the statute (see Figure 1), to guide existing and future community development.

Competitive grant programs, with limited funding, are also defined under the legislation to help fund the development and adoption of local comprehensive plans.

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**Figure 1: Nine primary comprehensive plan elements**

1. issues and opportunities;
2. intergovernmental;
3. land use;
4. utilities and community facilities;
5. economic development;
6. housing;
7. agricultural, natural, and cultural resources;
8. transportation; and,
9. implementation.

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**Figure 2: Transportation element (§66.1001(2)(c))**

A compilation of objectives, policies, goals, maps and programs to guide the future development of the various modes of transportation, including highways, transit, transportation systems for persons with disabilities, bicycles, walking, railroads, air transportation, trucking and water transportation. The element shall compare the local governmental unit's objectives, policies, goals and programs to state and regional transportation plans. The element shall also identify highways within the local governmental unit by function and incorporate state, regional and other applicable transportation plans, including transportation corridor plans, county highway functional and jurisdictional studies, urban area and rural area transportation plans, airport master plans and rail plans that apply in the local governmental unit.

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**For more information on the Comprehensive Planning Legislation**

The Department of Administration's Office of Land Information Services (OLIS) is responsible for providing technical information on the Comprehensive Planning Legislation, responding to related questions, and administering the competitive grant programs funded under the legislation. Additionally, OLIS can also provide information regarding comprehensive plans already completed by communities. Appendix 8 provides a brief list of a few communities who have developed their comprehensive plans. For questions you may contact 608.267.2707 or access information on the Internet at [www.doa.state.wi.us/olis](http://www.doa.state.wi.us/olis)

In addition to OLIS, there are several other agencies that may be able to provide you with the information and technical guidance necessary to complete your transportation element. Several of these agencies are listed throughout this Guide, such as area Metropolitan Planning Organizations (MPOs) or Regional Planning Commissions (RPC), County agencies, and state agencies such as the Wisconsin Department of Transportation (WisDOT) and Wisconsin Department of Natural Resources (WisDNR). Appendix 4, the Resource Directory, provides detailed contact information for a variety of agencies and information references.

**Purpose and recommended use of this Guide**

The purpose of this Guide is to provide you with basic transportation planning related information needed to help you through the transportation planning process as you develop the Transportation Element of your community's comprehensive plan, and make decisions relative to transportation. The qualities and needs of your community will dictate which aspects of the planning process are most applicable. It may not be necessary to address everything outlined in this Guide in your transportation element.

Further, this Guide is not meant to replace the valuable information and resources available to you through the variety of agencies at the local, regional and state level. Although preparation of your transportation element may include referencing the information in this Guide, it should also include contacting your area MPO or RPC (Appendices 1 and 2 provide contact information), County Highway Commissioner, WisDOT and other agencies that may be impacted or may be able to provide assistance.

Both MPOs and RPCs develop long-range transportation plans that consider and incorporate the transportation needs of all of the communities located within their planning areas. Therefore, as you begin developing your transportation element, you should consider using the MPO or RPC plan as the framework for developing your transportation element, and comprehensive plan.

## The transportation element within the context of the remaining elements

To begin drafting your transportation element, you must first be familiar with the statutory language of the element and its specific requirements. (See Figure 2).

Further, as you consider how to develop your local plan and address each of the elements in your local plan, you must understand that they are all interconnected. Oftentimes, your efforts to address one aspect of your community will impact other areas as well. Due to the interconnectivity of each of the nine elements, it is important to first define your community's overall vision by answering the question, "What do you want your community to look like over the next 20, 30 and 40 years?" (The Comprehensive Planning Legislation requires that a local comprehensive plan have, at a minimum, a 20-year planning horizon, however, as you consider your community's vision, goals, and objectives it may be beneficial to consider a 30- or 40-year planning horizon.)

By developing your community's transportation policy direction within the context of the other elements (excluding implementation), you will be able to answer the question, "How can our transportation services and facilities be maintained and developed to achieve our community's overall vision?"

In order to answer this question, you need to consider your community's goals, objectives and subsequent policies for each of

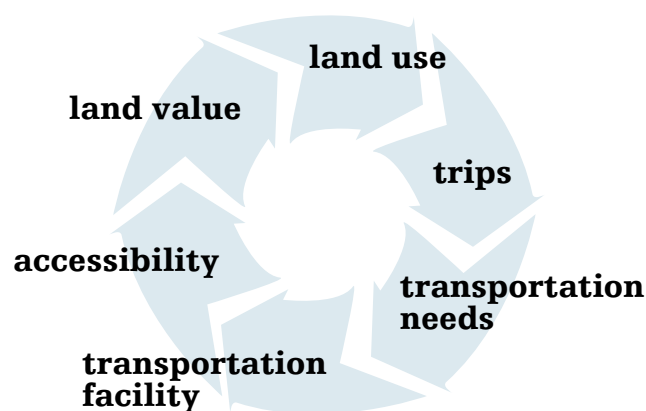
your plan's elements. As you define these aspects of your local plan, you need to look at how transportation may impact each of the goals and the decisions identified. The goals, objectives and policies outlined in your transportation element should focus on providing transportation choices that will most efficiently serve the selected adjacent land uses and needs within your community.

As you work to achieve this goal, you need to recognize that the land use decisions you make can and will influence transportation needs in your community. When making land use decisions, your community should determine how the land use decision will impact transportation and whether your community is willing and/or able to accept and/or address those impacts. (See Figure 3.) For example, the siting of a new industrial park within your community will impact traffic levels, particularly on those streets

providing access to the site. This may result in needed modifications to existing transportation facilities to accommodate the increased traffic levels, and/or may require increased funding to maintain the existing facility.

Although transportation decisions can directly influence a community's growth, it is more beneficial to a community's future that it be used as a tool to accommodate planned growth. Although it is likely that you will develop each element separately, it is important that you identify and address the overlapping impacts between each of the elements. This is especially important as you develop your land use and transportation elements, as the decisions you make for each element will directly impact the other.

**Figure 3: How transportation and land use decisions impact each other**



Source: *Statewide Land Use Task Force Final Report* (Highway Research Board), 1993.



## Chapter

# Partners in development of your Transportation Element

Public participation is a crucial activity in transportation planning, and early and active public involvement is vital to conducting successful transportation planning. The public is increasingly being encouraged to get involved in public decision-making processes, including transportation planning, by providing more and more input into public processes and increasing their active participation.

This chapter discusses:

- the importance of public involvement;
- public involvement goals;
- transportation stakeholders;
- visioning; and
- incorporating public involvement in all phases of transportation planning.









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**Techniques for contacting and including traditionally under-represented groups may include:**

- partnering with local church leaders and working with them to hold meetings and obtain feedback;
  - holding meetings at community centers;
  - setting up an information booth at a grocery store or area mall to provide information and obtain feedback; and/or
  - holding meetings in convenient locations that offer a variety of transportation choices.
- 

It may be difficult to encourage people within these groups to attend public meetings. For this reason, you may need to conduct public outreach activities specifically geared toward them. This may include conducting outreach efforts at non-traditional times of the day that are convenient for them, such as mornings or on weekends, and/or at non-traditional meeting locations such as community association sites, places of worship, and/or senior centers.

You may want to become familiar with the laws that govern/mandate government agencies to ensure that they do not discriminate against people within these groups. A few examples include the Americans with Disabilities Act of 1970 as amended (ADA), Title VI of the the Civil Rights Act which prohibits discrimination on the basis of race, color or national origin, and the Age Discrimination Act of 1975. The Civil Rights and Restoration Act of 1987 clarified the intent of Title VI to include all programs and activities of Federal-aid recipients, sub-recipients and contractors whether those programs and activities are federally funded or not.

Additionally, Environmental Justice, defined in the 1994 Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*, further requires that any agency or governmental unit receiving federal funding ensure that their planning and programming efforts include outreach to minority and low-income populations. The Executive Order reinforces several existing laws including the

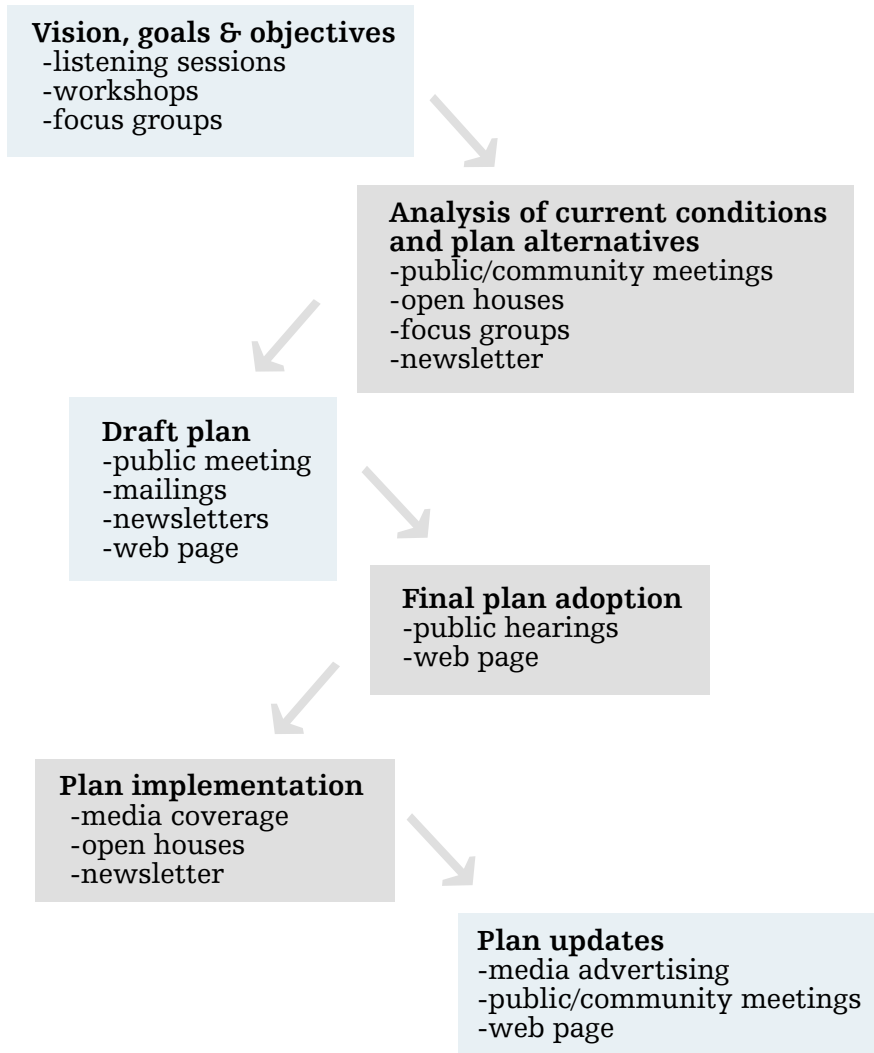
Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended. Subsequent documents were published to summarize and expand upon the Executive Order, including: U.S. DOT's *DOT Order to Address Environmental Justice in Minority Populations and Low-Income Populations*, and the Federal Highway Administration's (FHWA) *FHWA Actions To Address Environmental Justice In Minority Populations And Low-Income Populations, 6640.23*, 1998. Finally, in 1999, the FHWA and the Federal Transit Administration (FTA) issued the document *Implementing Title VI Requirements in Metropolitan and Statewide Planning*. This document provides clarification for field offices on how to ensure that environmental justice is considered during current and future planning certification reviews.

As you consider how to identify and contact these different groups within your community, you should be familiar with the above documents. Additionally, when identifying low-income populations it may be helpful to reference the current poverty guidelines issued by the Department of Health and Human Services which can be requested directly from the agency or accessed via their web page at <http://aspe.os.dhhs.gov/poverty/poverty.htm>

Taken more broadly, environmental justice and the other laws governing inclusion of different groups into planning and programming, seeks to strengthen the decision-making process by considering the perspectives of all people. Therefore, even though you must follow these



## Examples of public outreach methods during your planning process



is important to remember that a good public involvement process includes much more than simply holding a hearing. As emphasized throughout this section, a thorough public outreach effort is imperative. By including the public early and often, you are more likely to develop a plan that will be accepted by your community—an essential aspect of successful implementation.

It is to your benefit to capture the thoughts and issues that are on the minds of your community. The level of effort you invest in implementing a thorough public involvement strategy will pay off in the long run. The result of your hard work will be a well-informed, satisfied public that has been included in the decision-making process, and a community that has been planned in the manner that people in your community envisioned.

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### Endnotes

<sup>1</sup>*Transportation Action: A Local Input Model to Engage Community Transportation Planning*, North Central Regional Center for Rural Development, April 1996.

residents in your community are. Often you will find that by “canvassing” the members of your community—those actually affected by your transportation decisions—the effort will bring out issues that transportation professionals and other stakeholders may not have considered.

Although the Comprehensive Planning Legislation requires, at a minimum, one public hearing to formally adopt a local comprehensive plan (§66.1001(4)(a)), it



## Chapter

# 3 Regional and state planning perspectives

Because your transportation system does not end at your community's borders, your efforts to develop your transportation element should include considering how your community's transportation decisions can and will impact neighboring communities, the region and the state.

This chapter describes:

- why it is important that your transportation element be coordinated with applicable adjacent community, regional and state level plans;
- potential regional and state transportation plans to review and incorporate;
- how to identify inconsistencies between plans; and
- what you should do if inconsistencies are found.



reflects the aspects of other respective plans that can impact your transportation element.

As you work with neighboring communities, you may find it appropriate to develop a cooperative comprehensive plan that will meet both of your goals and objectives, and potentially result in mutually beneficial cost savings. Finally, your efforts to partner with different transportation stakeholders will not only benefit your local planning efforts, but also further enhance regional and state efforts to maintain and improve the connectivity of the transportation system.

For example, assume that your plan includes a proposal to include a bike route along the road connecting your community and the neighboring community. Your proposal requires that the shoulders of the road be expanded to provide a safe and viable route for bicyclists along the facility. However, the adjacent municipality has decided that the same road will provide service only to vehicles. Subsequently, the current design of the road through its municipal borders will remain the same. Although this inconsistency may not appear to harm either community's transportation planning efforts, the potential connectivity of the system will be jeopardized, potentially reducing the safety and attractiveness of the corridor for future bike travel. With coordination and planning, it is possible for both communities to address their needs, and meet their goals and objectives.

In addition to coordinating with the different transportation stakeholder interests, you will also need to compare your transportation

element's goals, objectives and policies to the applicable regional and state level plans. For example, the transportation plans completed by your area's RPC or MPO and the state have identified the future location of a bypass route around your community. Although the initial agreements indicate your community's support for the bypass, it is not incorporated into your transportation element. If your community does not resolve this inconsistency early in the process, potential conflicts may delay decision-making efforts for all involved. Additionally, not addressing this issue may result in costly delays regarding land use and transportation decisions for your community and the region.

Similarly, assume that there is a state trunk highway running through your community. If one of the objectives of your transportation element includes allowing increased access to that facility to accommodate planned development, it is necessary that you ensure that your plans for increased access are consistent with other plans affecting that facility. Your planning process should include a review of applicable state and regional plans to identify and correct any inconsistencies between your transportation element and the applicable plans. For this example, the plans you may need to review include:

- WisDOT's Access Management System Plan;
- Wisconsin State Highway Plan 2020;
- Any relevant corridor planning studies conducted for the facility;

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### Partnering with other transportation stakeholders will help you to identify:

- potential inconsistencies or contradictions between plans;
  - potential impacts of not addressing the inconsistency;
  - available resources, data and other applicable information you may need; and
  - whether it is possible to develop a cooperative plan with your neighboring community.
-





## Chapter

# Local transportation planning

Developing a transportation element involves several steps, ranging from defining your transportation vision within the context of the remaining eight elements, to data collection, to analyzing existing and future needs.

This chapter describes how you can:

- define your community's transportation vision;
- establish goals and objectives to achieve that vision;
- conduct an inventory of your current transportation system;
- assess current and future needs of your transportation system; and
- consider needs assessments and accommodations for other transportation choices.



- how decisions made by other entities may impact your transportation system.

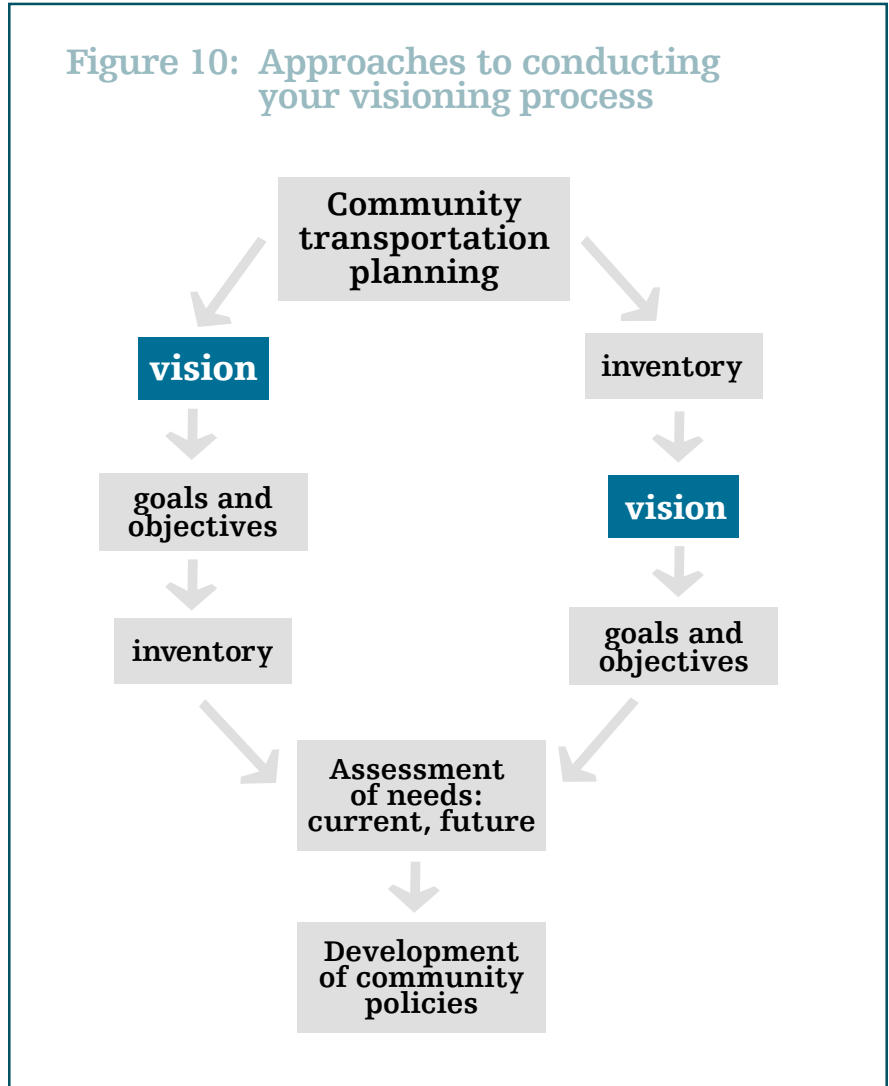
In developing your transportation element, you need to focus on those aspects of the transportation system over which you have direct responsibility. However, sometimes you will have to respond to changes in transportation facilities over which you have no control since they can impact your transportation system. For example, a new or expanded rail facility in a neighboring community may result in increased truck travel through your community. This increased travel can greatly impact your community's road system.

This example also highlights the need for your transportation element to incorporate all transportation options available to the members of your community. As described above, a transportation system may consist of several transportation choices and thereby provide several options to complete the same trip. For example, a transportation system that offers a variety of choices allows a person the choice to drive, walk, bike or use transit to complete their trips.

### Your community's Transportation Element

Because the transportation element is meant to guide your future transportation decisions, the element should include:

- a transportation vision;
- goals and objectives;
- an analysis and identification of existing and future needs (note: you will need to examine trends in such areas as demographics,



- economic development and land use changes in addition to transportation);
- policies and recommendations (to guide you when making decisions regarding transportation, such as, whether to accommodate future trips or not); and
- implementation strategies.

### Developing a vision

Once your community has developed its overall vision, you should develop your community's transportation vision. It is important to understand that land use





## Developing goals and objectives

After creating your vision statement, you are ready to develop goals and objectives to achieve your vision. Figure 11 describes the differences between goals and objectives. Remember that you should develop your goals and objectives so they are consistent with:

- your community’s transportation vision, and
- the goals and objectives identified in the other elements of your community’s comprehensive plan.

It is important to develop goals and objectives that are realistic. Keep in mind your community’s funding constraints.

### Figure 11: Goals vs. objectives

Goals	Objectives
Broad	Narrow
General	Precise
Intangible	Tangible
Abstract	Concrete

#### Example

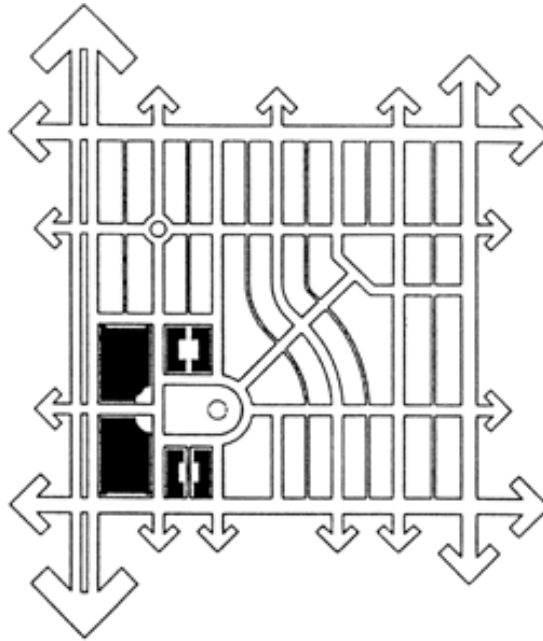
*Goal:* To improve transportation safety.

*Objective:* Develop a transportation system that reduces the number of conflict points.

Potential areas for which to develop goals and objectives may include:

- **Providing transportation choices:**  
What transportation choices are available? Are the different transportation choices conveniently interconnected? How do the types of transportation interrelate with each other?

Figure 12: Example of a well-connected local street grid system



This grid-system pattern promotes pedestrian and bike use, while reducing auto congestion by offering motorists more route options.

Diagram courtesy of Citizens for a Better Environment

- **Maintenance and improvements:**  
How will the current transportation system be maintained and improved? How will deterioration be addressed as the system ages?
- **Enhancing and improving the local street connectivity:**  
What are existing street patterns? Do the patterns promote pedestrian and bicycle travel? Do the street patterns accommodate safe traffic flow? Are there any gaps in connections between transportation choices? (See Figure 12.)
- **Safety:**  
How will transportation safety be maintained and improved?



Table 1: Things to consider when conducting your transportation system inventory

Mode	Things to consider	Mode	Things to consider
<b>Roads &amp; hwys</b>	<ul style="list-style-type: none"> <li>- Maps identifying:               <ul style="list-style-type: none"> <li>Road network</li> <li>Key traffic generators</li> <li>Crash locations</li> </ul> </li> <li>- Roadway condition</li> <li>- Mileage by functional classification</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> <li>- Average daily traffic</li> <li>- Parking availability</li> <li>- Number of crashes by type (property, injury, fatality)</li> <li>- Condition of bridges and structures</li> <li>- Maintenance and improvement history</li> <li>- Roadway characteristics (width, number of lanes, divided, auxiliary lanes, etc.)</li> </ul>	<b>Airports</b>	<ul style="list-style-type: none"> <li>- Map showing location of airport(s) serving the community (including noise contours if available)</li> <li>- Type of airport(s) (e.g., general aviation, commercial service, public or private, military, reliever)</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> <li>- Airport classification (air carrier, transport corporate, general utility, etc.)</li> <li>- Description of airport(s): runway length(s), activity levels, based aircraft, enplanements, cargo (for commercial service airports)</li> <li>- Additional considerations: current zoning ordinances (e.g., height limitations zoning ordinances; land use zoning ordinances)</li> <li>- Approach clearance considerations</li> </ul>
<b>Rail</b>	<ul style="list-style-type: none"> <li>- Maps identifying the location of:               <ul style="list-style-type: none"> <li>Railroad tracks</li> <li>Location and type of highway-rail crossings (e.g., lights, gates, crossbucks)</li> <li>Intermodal connections</li> </ul> </li> <li>- Number of highway-rail crossings</li> <li>- Type of service (i.e., freight, passenger)</li> <li>- Track mileage in the community</li> <li>- Frequency/number of trains traveling through the community</li> <li>- Types of crossing protection</li> <li>- Number of rail/highway crashes</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> </ul>	<b>Bicycles</b>	<ul style="list-style-type: none"> <li>- Map identifying:               <ul style="list-style-type: none"> <li>Bike accommodations by type (e.g. multi-use paths, dedicated bike lanes)</li> <li>Crash locations and total number</li> <li>Bike routes</li> <li>Over/under passes</li> </ul> </li> <li>- Percentage of population that bikes</li> <li>- Number of bicycle crashes</li> <li>- Suitability of current roads for bicycling</li> <li>- Generators of bicycle trips</li> <li>- Barriers to bicycling</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> </ul>
<b>Transit</b>	<ul style="list-style-type: none"> <li>- Map identifying transit routes</li> <li>- Area of service (i.e., regional, local)</li> <li>- Ridership</li> <li>- Site design/building orientation</li> <li>- Frequency of service</li> <li>- Type(s) of service (e.g., shared ride taxi, bus)</li> <li>- Service hours (e.g. nights, weekends)</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> </ul>	<b>Pedestrian</b>	<ul style="list-style-type: none"> <li>- Map identifying:               <ul style="list-style-type: none"> <li>Pedestrian facilities (e.g. overpasses, multi-use paths, worn paths, crosswalks, signals, sidewalk network)</li> <li>Crash locations</li> </ul> </li> <li>- Total miles of sidewalks</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> <li>- General condition of sidewalks</li> <li>- Percentage of population that walks</li> <li>- Number of pedestrian crashes</li> <li>- Site design/building orientation</li> <li>- Barriers such as rivers, highways, freeways</li> <li>- Street crossing problems</li> <li>- School route barriers</li> </ul>
<b>Harbors</b>	<ul style="list-style-type: none"> <li>- Maps identifying the location of:               <ul style="list-style-type: none"> <li>Harbor(s)/port facilities</li> <li>Intermodal connections</li> <li>Marinas, boat ramps, and ferry docks</li> </ul> </li> <li>- Types and tonnage of commodities shipped</li> <li>- Length of the shipping season</li> <li>- Number of ships annually using the harbor</li> <li>- Opportunities to develop links/transfers to other transportation choices</li> </ul>		

**Table 2: Types of information, example uses and potential sources**

Type of information	Sources
<b>Demographic</b> (e.g., population, age, income, minority)	-Local/county planning office -County Land Information Office -Area MPO or RPC -Wisconsin Department of Administration -U.S. Census Bureau
<b>Economic development</b> (e.g., tourism, business development)	-Local chamber of commerce -Local/county planning office -Community economic development groups -County Land Information Office -University of Wisconsin–Extension -Wisconsin Department of Commerce
<b>Environment</b> (e.g., air quality, water quality, noise, endangered species, historic places)	-Local/county planning office -County Land Information Office -University of Wisconsin–Extension -Wisconsin Department of Natural Resources -State Historical Society -U.S. Environmental Protection Agency -U.S. Fish and Wildlife -Army Corp of Engineers -Federal Aviation Administration/ Airports District Office
<b>Land use and zoning</b> (e.g., agriculture, residential, commercial)	-Local/county planning office -Adjacent community local land use and comprehensive plans -County Land Information Office -RPC/MPO -Wisconsin Department of Agriculture, Trade and Consumer Protection -Wisconsin Department of Commerce -Wisconsin Department of Revenue -Wisconsin Department of Natural Resources
<b>Transportation</b> (e.g., average daily traffic, road functional classifications, performance measures)	-Local public works/transportation office -County highway department -Transit operators -RPC/MPO -Railroad companies -Harbor commissions -Airport Owners -WisDOT -Office of the Commissioner of Railroads -Federal Highway Administration (FHWA) -Federal Aviation Administration/ Airports District Office

different types of transportation. However, remember to think broadly when developing your inventory because there are times when a particular type of transportation may not be readily apparent. For example, even if your community does not have sidewalks, it does not mean that an inventory of pedestrian accommodations should not be conducted. Instead of sidewalks, your inventory may include assessing the availability of walking paths, and paved and unpaved shoulders.

Second, you need to consider regional services that may impact your community’s transportation system. For example, your community may not have an airport, but it may be served by a regional airport. Your inventory should reflect how your community’s transportation system is impacted by these regional services.

Third, you need to gather a variety of data regarding transportation, demographics, land use, economic development, environmental issues, etc. Maps and numbers are key to preparing an inventory. You need to know where facilities are located, how many users the facility has, how large the facility is, and other similar information. Table 1 provides a partial listing of items to consider including in your community’s transportation system inventory. Remember—since no two communities are alike, all of the items listed in the table may not apply to your community.

In addition to gathering data about your community’s transportation system, you should also consider the information identified in the other elements of your comprehensive plan (e.g., housing,



**Table 3: Urban and rural functional classification system**

<b>Classification</b>	<b>Description</b>
<b>Urban (Roads within urban areas—i.e., places of 5,000 population or more)</b>	
<b>Principal arterials</b>	Serve longer intra-urban trips and traffic traveling through urban areas. They carry high traffic volumes and provide links to major activity centers. The urban principal arterials are connected to the system of rural principals and minor arterials. Urban principal arterials are subdivided into 1) Interstate highways, 2) other freeways, and 3) other principal arterials.
<b>Minor arterials</b>	Provide intra-community continuity and service to trips of moderate length, with more emphasis on land access than principal arterials. The minor arterial system interconnects with the urban arterial system and provides system connections to the rural collectors.
<b>Collectors</b>	Provide both land access service and traffic circulation within residential neighborhoods, commercial areas, and industrial areas. These facilities collect traffic from the local streets in residential neighborhoods and channel it onto the arterial system. In the central business district, and in other areas of like development and traffic density, the collector system may include the street grid which forms the basic unit for traffic circulation.
<b>Local streets</b>	Comprise all facilities not on one of the higher systems. They primarily provide direct access to adjacent land and access to higher order systems. Local streets offer the lowest level of mobility, and through-traffic movement on this system is usually discouraged.
<b>Rural (All roads outside of urban areas)</b>	
<b>Principal arterials</b>	Serve interstate and interregional trips. These routes generally serve all urban areas greater than 5,000 population. The rural principal arterials are further subdivided into 1) Interstate highways and 2) other principal arterials.
<b>Minor arterials</b>	In conjunction with the principal arterials, they serve cities, large communities, and other major traffic generators providing intra-regional and inter-area traffic movements.
<b>Major collectors</b>	Provide service to moderate sized communities and other intra-area traffic generators, and link those generators to nearby larger population centers or higher function routes.
<b>Minor collectors</b>	Collect traffic from local roads, and provide links to all remaining smaller communities, locally important traffic generators, and higher function roads. All developed areas should be within a reasonable distance of a collector road.
<b>Local roads</b>	Provide access to adjacent land and provide for travel over relatively short distances. All roads not classified as arterials or collectors are local function roads.

Source: Wisconsin Department of Transportation, *Facilities Development Manual*, Procedure 4-1-15.

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communities to identify roads by function. A functional classification system groups streets and highways into classes according to the character of service they provide. This character of service ranges from providing a high degree of travel mobility to providing land access functions.

Most public roads in Wisconsin have been classified according to their function. You can obtain functional classification, mileage data, and hard copy maps of the classification of your community's roads by contacting your WisDOT District office (See Appendix 3 for contact information). Even though your community may include roads that are not classified with WisDOT, you should identify them and include any future planning proposals in your transportation element.

The current functional classification system consists of five classifications that are divided into rural and urban categories (see Table 3). Functional classifications are used to determine eligibility for federal aid. When seeking state funding for transportation projects you will need to contact your area Transportation District office (Appendix 3) to determine what standards may need to be met to qualify for funding. For example, an urban principal arterial would have to be designed to higher standards than a local street since the arterial would carry higher volumes of traffic.

In addition to identifying the functional classification and mileage of your community's road network, you should also determine the physical condition of your roads and bridges.



Photo: WisDOT

**Example of a poor pavement condition that should be noted when conducting your pavement condition analysis.**

An accurate assessment of your community's pavement maintenance and improvement needs is dependent on a good understanding of pavement conditions on your streets and highways. WisDOT maintains pavement ratings for State Trunk and Connecting Highways, and counties are responsible for assessing the condition of their highways.

There are several pavement condition rating systems available for you to use to evaluate pavements on roads under your jurisdiction. The one most commonly used by communities in Wisconsin is PASER (Pavement Surface Evaluation and Rating). PASER is a simple method of rating asphalt and concrete roads on a scale of 1 to 10 and gravel roads on a scale of 1 to 5, based on visual inspection. PASER manuals and a video explain how and why roads deteriorate, and describe proper repair and replacement techniques.

PASER ratings can be put into PASERWARE, an easy-to-use





Photo by Kurt Miller, WisDOT

**This worn path is an example of a need within a community, that should be identified during the needs analysis process.**

pavement management software. PASERWARE helps you inventory your roads, and keep track of their PASER ratings and maintenance histories. It also helps you prioritize road maintenance and improvement needs, calculate project costs, evaluate the consequences of alternative budgets and project selection strategies, and communicate those consequences to the public and local officials. Both PASER and PASERWARE are available from the University of Wisconsin's Transportation Information Center at no charge. The Center also offers free training courses at various locations around the state. (Call 1.800.442.4615 for more information.)

PCI (Pavement Condition Index) is another rating system used by some Wisconsin municipalities. It is also a visual rating tool, but is a more sophisticated and time-intensive system that requires detailed identification and measurement of the various types of pavement distress. It produces ratings that range from 0 to 100 (0 being the worst and 100 the best). While it is more expensive to use this system, PCI ratings can provide more detailed information for use in the development of capital improvement and maintenance programs.

WisDOT is currently working in cooperation with local governments to develop a local roads database (Wisconsin Information System for Local Roads, WISLR) which will include comprehensive data on all roads under county and local jurisdiction. Wisconsin legislation requires that local governments collect and submit condition ratings for all local roads by the end of 2001. The majority





Photo: Kurt Miller, WisDOT

**Example of a curb cut design along a pedestrian facility that provides improved accessibility for pedestrians using the facility.**

service several different cities, or are the majority of flights to a particular destination? If the flights are to a particular destination, does this impact the number of community residents who choose to fly?

In addition to addressing each type of transportation (as applicable to your community) individually, you should also address the interrelationships between:

- the different modes in your community's transportation system, and
- your community's transportation

system and the transportation systems of the state, region and neighboring communities.

Questions to consider may include:

- Do interrelationships exist between the different types of transportation? If yes, what are the interrelationships and where do they exist? If no, how can they be established?
- How does the state's, and/or county's, and/or neighboring community's transportation system impact your community's transportation system? Also, how can safety be maintained or improved on these systems?

Finally, you should document your analysis and any assumptions you used. For example, if some of your projected future needs are based on the assumption of a 1% increase in population, this assumption should be stated in your Issues and Opportunities (§66.1001 (2)(a)) and Transportation Elements. Additionally, when completing your analyses, you should try to use information that is measurable (quantitative), such as measuring the number of people using the transit system in your community, or the number of vehicles traveling along a stretch or road, rather than speculative/non-measurable (qualitative). However, as discussed previously, when you measure the pavement condition in your community, a visual assessment is sufficient to meet the needs outlined in state statute.

### Current needs

The assessment of your transportation system's current needs is related to the inventory informa-



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## Pedestrian and bicycle resources:

*Wisconsin Pedestrian Planning Guidance—Guidelines for Metropolitan Planning Organizations & Communities in Planning & Developing Pedestrian Facilities*, Translinks 21, WisDOT, 1993.

([http://www.dot.state.wi.us/dtim/bop/ped\\_design.htm](http://www.dot.state.wi.us/dtim/bop/ped_design.htm))

*Wisconsin State Pedestrian Plan 2020*, WisDOT, tentative release date 2001. (<http://www.dot.state.wi.us/dtim/bop/planning-index.htm>)

*Wisconsin Bicycle Planning Guidance—Guidelines for Metropolitan Planning Organizations & Communities in Planning & Developing Bicycle Facilities*, Translinks 21, WisDOT, 1993. (<http://www.dot.state.wi.us/dtim/bop/planning-transl.htm>)

*Wisconsin State Bicycle Plan 2020*, WisDOT, 1999 (<http://www.dot.state.wi.us/dtim/bop/planning-index.htm>)

*Guide for the Development of Bicycle Facilities*, American Association of State Highway and Transportation Officials, 1999. (<http://www.aashto.org>)

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riders, bicyclists and pedestrians? Are adequate facilities available for these users? Are the facilities in sufficiently good condition? What, if any, facilities (e.g., additional transit routes, sidewalks, bike lanes, etc.) are lacking?

When identifying current needs, you should also determine if these needs are the result of temporary fluctuations in traffic volumes such as rush hour or seasonal variations. For example, a particular road in your community may be adequate to carry traffic volumes from November to May, but may have high traffic volumes in June to October due to an influx of tourists. Or the road may be adequate at all times except from 7:00–9:00 A.M. and 4:00–6:00 P.M. on weekdays when the rush hour traffic occurs. You will need to decide if the facility should be improved to handle the peak traffic volumes or if the road should simply handle the average traffic volumes it experiences.

### Future needs

The inventory will also provide a base for addressing the future needs of your transportation system. Assessing future needs involves looking at how well the system is operating today, and projecting what must be done to ensure adequate operation in the future. The other elements (e.g., land use, economic development, housing) that you have developed for your comprehensive plan will help you identify future travel needs that your transportation system will have to meet. Important factors to consider include such things as:

- planned development (e.g., residential, commercial, etc.);
- trends in demographics, traffic flow, development patterns and economic development; and
- actions of neighboring communities, the region or the state, including new developments and transportation projects.

When considering these factors, you need to determine how they will influence your transportation system's:

- condition,
- traffic volumes,
- capacity needs,
- safety,
- accessibility, and
- other modal considerations.

For example, if your community's population has been growing at a consistent rate and future projections continue to show an increase, this will result in more users of your transportation system. You need to determine what changes and/or additional facilities may be needed to accommodate the additional users. For example, will more parking be needed? Will additional bikeways need to be constructed? Should new transit service be started or additional transit routes be added? Will new arterial and collector streets be needed to serve the new development associated with the growing population? Will there be a need for separated crossings (e.g., overpasses/underpasses for bicyclists, pedestrians or vehicles) for heavily traveled facilities such as freeways or rail lines?



Photo by Kurt Miller, WisDOT



Example of a road that provides transportation facilities for bicyclists, pedestrians and motorists.

include providing or enhancing services for transit, walking, biking, and/or providing ride-sharing opportunities. It may also include incentives to employers to provide alternative work schedules through staggered work hours, flextime, and compressed work weeks. Another TDM method is to allow employees to telecommute from home or an alternative work site to minimize the amount they have to travel.

### Bike and pedestrian accommodations

By providing bike and pedestrian accommodations along the facility, corridor users will have other transportation choices which may potentially reduce vehicular travel demand on the corridor. Bike accommodations may include marked facilities such as bike lanes on the roadway, and wider outside lanes. In rural areas they may include paved shoulders. Pedestrian accommodations may include sidewalks in urban areas, or generally wide shoulders in rural areas.

### Guidelines to accommodate pedestrians

- **Sidewalks** should be located on both sides of urban and suburban streets, especially arterial and collector streets.
- **Shoulders** may be used in rural areas, but are not considered a walkway as defined by Wisconsin State Statute. Therefore, short segments of sidewalks may need to be installed in developed portions of rural areas.
- The **width of roadways and intersections** should be considered for their “barrier impact” on pedestrian crossing times and overall crossing difficulty. The narrower the roadway or intersection, the easier it is to cross. Enhancements such as medians or splinter islands should be considered for multi-lane roads.

### Guidelines to accommodate bicyclists

- Arterial and collector streets should include bike lanes or wide curbside or parking lanes whenever possible. These roadways provide key access for bicyclists and help move bicyclists over barriers such as freeways, rivers and rail lines.
- Most neighborhood streets with existing low speeds and auto volumes generally do not require bike lanes or other special accommodations, as they already provide good bicycle access.
- Bicycle or multi-use paths are best located adjacent to rivers and lakes or within green-ways or abandoned rail line corridors so that crossing conflicts are minimized.

### Parking management options

Managing the cost and availability of parking along a corridor is also an option that your community may consider when exploring corridor planning and preservation options. Managing parking can include limiting parking along the facility to allow for free flow traffic at peak periods during the day, or eliminating parking along a facility. If you incorporate this option in your planning efforts, your decisions should reflect the needs of your community.

### Additional note regarding alternatives analyses

As your community develops strategies to address current and future needs, you may wish to evaluate different alternatives for your transportation system. An analysis of alternatives is **not required** by the comprehensive planning legislation. However, the development of alternative scenarios allows you to assess the implications of different policies, programs and expenditure levels. Additionally, it allows you to assess different options and how well they will reasonably accommodate the trips generated. In addition, public evaluation of alternatives allows members of your community to play a more active role in determining the direction of your transportation element, which in turn may increase public support for the transportation component of your comprehensive plan. If you incorporate alternative approaches into your transportation element development process, it is important to understand that they may be difficult to implement. In general, the preference for vehicular travel is high and increasing. As a result, people may be reluctant

to use another form of transportation. For this reason, it is not guaranteed that these approaches will be successful in encouraging people to select other forms of transportation.

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### There are different types of alternatives that can be analyzed. These include:

- Alternative land use scenarios,
  - Alternative levels of funding, and
  - Alternative transportation choices.
- 

One approach is to look at **alternative land use/development scenarios** for your community and predict what your transportation system needs would be for each scenario. For example, how would your transportation needs change if a particular area of your community was zoned for commercial use instead of residential use, or if your town allowed the creation of small residential lots rather than 35-acre minimum parcels? Generally, applying this alternative to land use decisions within your community can result in higher density development patterns, likely resulting in increased biking and walking as a transportation choice. Providing an analysis using this approach helps the public understand the connection between land use and transportation and how land use and transportation decisions impact each other.

A second approach is to **address different levels of funding**. This option allows you to assess the number and type of projects that could be made to your transportation system based on different levels of investment. For example, how much funding would be required if all of your transportation needs

were addressed, or if your community was willing to accept higher levels of congestion? How would funding vary if only the most urgent needs were addressed? This option assists the public in understanding the true costs of the improvements, and allows you to make different assumptions about future revenues.

The third approach is to **address alternative transportation choices** for travel in your community. For example, you may choose to expand available transit services and bicycle and pedestrian accommodations. By developing alternative transportation elements that incorporate differing types and amounts of transportation choices within your community, you will be able to evaluate each option and determine the approach that best fits your community's goals and objectives. Although expansion of transportation alternatives has not been shown to reduce the demand for vehicular travel, it does provide transportation users with more options as they consider their trip needs.

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### Endnotes

<sup>i</sup>A transport classification identifies the basic type of service the airport is intended to provide, such as light general, corporate, commuter and others.

<sup>ii</sup>Para-transit services generally are provided to members of the community who require vehicles that provide increased accessibility, as well as more "enhanced" and flexible routing than are provided by fixed-route, main-line transit services.



# Chapter 5

## Transportation and land use

Transportation and land use decisions are closely connected. Decisions to address either can and will impact the other.

This chapter provides a brief overview of:

- direct, indirect and cumulative impacts of transportation;
- examples of indirect impacts of transportation projects and how they may influence land use and development within your community;
- Wisconsin Administrative Code, Chapter TRANS 233;
- access management and related techniques; and
- the importance of transportation corridor planning, and methods of corridor preservation.

As you consider how to address your community’s needs over the short- and long-term, you will need to consider the entire array of factors that can influence the growth and development of your community. For example, if your community wants to attract industrial businesses then good connections to the regional and statewide transportation networks will be necessary. Additionally, decisions regarding lot sizes for a new subdivision can have an impact on travel choices—smaller lot sizes with mixed land uses will make the option to travel by a means other than a vehicle more attractive, while larger lot sizes with separated land uses will likely increase individual decisions to rely on vehicles for travel.

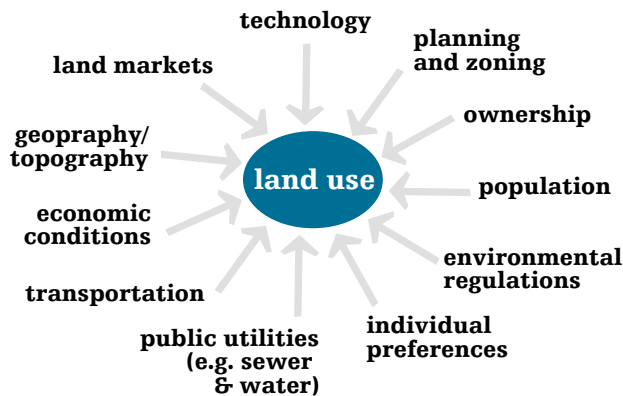
Although transportation can impact land use, it is not the only factor. There are many other factors that influence land use decisions, such as economic conditions and individual preferences (see Figure 13). Therefore, it is important that your decisions emphasize balancing these factors and their influences on your community.

## Direct, indirect and cumulative impacts of transportation

Although transportation is not the only influence on land use, it is important for you to be aware that the decisions you make regarding your community’s transportation system may affect land use both *directly* and *indirectly*. You should also be aware of the cumulative or overall effects of your transportation decisions on your community. Understanding these concepts will help you make informed decisions for both your transportation and land use elements. (See Figure 14 for the Land Use Element statutory language.)

*Direct impacts* are impacts that are directly caused by the construction of a new transportation facility, changes to an existing facility, and/or decisions to change the traffic patterns along a facility. These may result in both positive and negative impacts. For example, positive impacts may include the diversion of truck traffic from a downtown area, or the creation of a safer walking environment in the area by reducing the high incidence of crashes. Additionally, decisions to reconstruct or expand a facility may have a positive direct impact of improving the storm water management practices at the time of reconstruction to better control run-off into nearby waterways. Potentially negative direct impacts resulting from transportation decisions may include loss of natural resources such as agricultural land, forests, and wetlands to accommodate the new facility, as well as the fragmentation of habitats and threats to endangered resources.

Figure 13: Factors affecting land use



Source: *Indirect and cumulative effects analysis for project induced development*, Technical Reference, WisDOT

*Indirect impacts* of transportation decisions may also influence land use patterns but are not directly related to the project and therefore, may not be as easily discernible. For example, a capacity expansion project designed to accommodate increasing traffic levels along a facility may have an impact on future land use patterns in the area by making the adjacent land either more or less attractive for development. At the same time, however, decisions regarding the location of different land uses, through the promotion of mixed use and/or high density developments, can lead to increased transportation options by users in the area.

In addition to considering individual indirect and direct impacts of transportation decisions, it is important for you to consider the “big picture” or cumulative impacts and how decisions for one area of your community may impact other areas locally and/or regionally. For example, the location of a new public street intersection with a highway will often lead to increased development in the vicinity of the new access. The new development may result in increased jobs for the community, which may, in turn, result in population growth, potentially resulting in the need for new services such as new schools and extended public utilities.

### Examples of indirect impacts of transportation

As your community considers how to address both short- and long-term transportation needs, it is important to consider how

the transportation facility and proposed design will impact development patterns. There are five general design strategies or characteristics of transportation facilities that can influence land use, either separately or in combination. These include: location, capacity, travel patterns, traffic control, and access management.

The location of a transportation facility(ies) (e.g., new roads, airports, bypasses, and/or interchanges) can significantly influence the present and future development patterns for commercial, industrial, residential, and central business districts within your community. Because the location of a facility can influence future growth and development within your community, you may want to consider a range of alternatives regarding the new facility prior to making a final decision. Conducting an alternatives analysis will allow you to consider not only the actual alignment of the facility, but also the range of transportation and land use impacts that may result. An equally important activity, when considering a location decision, is ensuring that the public is involved. The decisions regarding locating a new facility or relocating an existing road will impact everyone using and situated adjacent to the corridor. Therefore it is important that the public has an opportunity to comment on the alternatives developed and decisions made. (See Chapter 2 for more information regarding public involvement.)

Decisions to add **capacity** may include new traffic lanes (including high occupancy vehicle lanes), increased rail service, and

### Figure 14: Land Use Element (§66.1001(2)(h))

A compilation of objectives, policies, goals, maps and programs to guide the future development and redevelopment of public and private property. The element shall contain a listing of the amount, type, intensity and net density of existing uses of land in the local governmental unit, such as agricultural, residential, commercial, industrial and other public and private uses. The element shall analyze trends in the supply, demand and price of land, opportunities for redevelopment and existing and potential land-use conflicts. The element shall contain projections, based on the background information specified in par. a, for 20 years, in 5-year increments, of future residential, agricultural, commercial and industrial land uses including the assumptions of net densities or other spatial assumptions upon which the projections are based. The element shall also include a series of maps that shows current land uses and future land uses that indicate productive agricultural soils, natural limitations for building site development, floodplains, wetlands and other environmentally sensitive lands, the boundaries of areas to which services of public utilities and community facilities, as those terms are used in par. d, will be provided in the future, consistent with the timetable described in par. d, and the general location of future land uses by net density or other classifications.

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**For more information on secondary impacts and recommended analysis techniques refer to:**

*Indirect and Cumulative Effects Analysis for Project-Induced Land Development, Technical Reference Guidance, WisDOT.*

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/or accommodations for other transportation choices such as bike lanes, bus lanes, sidewalks, or pedestrian over/underpasses. Capacity decisions can also impact land use patterns depending on the amount and type of access available to the adjacent land, as well as the amount of traffic traveling along the facility. Expanding capacity is an important option when traffic levels along a facility have reached a level that is no longer safe or tolerable to users of the facility. However, it is important to understand that providing the added capacity will facilitate a greater flow of traffic along the facility potentially resulting in increased use of the facility by motorists, and further contributing to potential capacity issues in the future. Therefore, as your community considers whether to add capacity for motorists, you may also want to consider providing accommodations along the road for other potential users. These may include a dedicated lane for bicyclists and buses, and/or a sidewalk on one or both sides of the roadway.

Decisions that change **travel patterns** affect traffic volumes and/or traffic mix and can impact the desirability of adjacent land for existing and new development. As your community considers its goals and objectives, decisions to attract or encourage development within the area need to recognize that travel patterns will change as a result. For example, if your community has decided to allow the siting of a retail development in an area of the community that is relatively undeveloped, you should expect that traffic levels

and patterns will change in response. Therefore, in addition to determining the site for the new development, you will also need to consider whether to accommodate the increases in travel or not. Similarly, if your community is considering new housing development, then decisions must consider the width of residential streets and how important providing on-street parking is.

**Traffic control devices** may include divided highways, placement of median openings, traffic signals, stop signs, and left/right turn lanes. The addition of these devices will impact land use patterns depending on whether it improves access or makes it more difficult. For example, a traffic signal at a busy intersection will likely improve the interaction of pedestrians and motorists traveling through the intersection. Additionally, the traffic control device may also result in individuals choosing to capitalize on the increased access to adjacent land, since traffic flow improved. Similarly, the placement of a median can serve several needs such as providing a refuge for pedestrians crossing the street, and controlling the traffic flow of vehicles traveling into or out of an adjacent development.

The degree of **access** onto and off of a transportation facility can also impact the desirability of developing the adjacent land. Access control characteristics can range from full access control such as grade separated interchanges, to partial access control, to no access control. Generally the more stringent the access control, the more likely that development will only occur in the vicinity of the















## Chapter

# 6 Community and environment

Each transportation decision impacts economic and community development, and the natural and built environment. Even the decision to “do-nothing” has both negative and positive impacts. It is important that you understand these impacts before you make your transportation decisions.

This chapter provides a brief overview of things you should consider when determining the impacts your transportation decisions may have on:

- community/economic development, and
- environmental issues.

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**Figure 15:**  
**Economic development**  
**element (§66.1001(2)(f))**

A compilation of objectives, policies, goals, maps and programs to promote the stabilization, retention or expansion, of the economic base and quality employment opportunities in the local governmental unit, including an analysis of the labor force and economic base of the local governmental unit. The element shall assess categories or particular types of new businesses and industries that are desired by the local governmental unit. The element shall assess the local governmental unit's strengths and weaknesses with respect to attracting and retaining businesses and industries, and shall designate an adequate number of sites for such businesses and industries. The element shall also evaluate and promote the use of environmentally contaminated sites for commercial or industrial uses. The element shall also identify county, regional and state economic development programs that apply to the local governmental unit.

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Ideally, your local comprehensive planning efforts will include development of each element within the context of the remaining elements. Because transportation can be used as a tool to accommodate the future growth and development of your community, the policies you identify in each of the eight elements should be reflected in your transportation decisions. If these elements have not yet been developed, the impacts you identify in your transportation element should be reflected in these elements.

You should also remember that the impacts of your transportation element do not necessarily end at your community's borders. Oftentimes, impacts are felt on a regional basis. For example, development decisions made within your community to attract more industrial interests may result in increased trucking traffic not only through your community but also in communities located several miles away. Your transportation element should seek to minimize the negative impacts on both economic development and environmental quality.

### **Economic/community development**

Providing a quality transportation system is important to the success of every business in Wisconsin. Businesses need to be able to efficiently access the transportation system to ship and receive goods, and also to provide good access and visibility to customers. Therefore, it is important that your transportation element development efforts consider whether your decisions to address transportation will meet your community's

development needs. For example, a regional shopping center has the potential to greatly improve the vitality of a community. However, if customers cannot easily access the shopping center due to an inadequate transportation system (e.g., traffic back-ups, lack of pedestrian accommodations, lack of transit service), they may choose to shop elsewhere. Similarly, manufacturers and commercial businesses may experience delays in shipping and receiving products as a result of transportation system problems. As you make these determinations you should be familiar with the requirements of the Economic Development Element identified within the Comprehensive Planning Legislation (see Figure 15).

Just as businesses need good access, employees also want to be able to efficiently access their places of employment. Lack of access to employment opportunities may affect individual decisions to seek employment or live in your community. For example, an individual may choose one job offer over another because she can easily commute to work in a minimal amount of time as a result of less congestion or more transportation choices (e.g., transit, bicycling, walking).

For these reasons, it is important that you consider how your community's transportation system currently serves the needs of your business community, and how it will accommodate future economic growth. When making your determinations, you must remember that different businesses have different transportation requirements. For example, a paper mill may value easy access to

roads and rail lines, while a retail distribution center may value access to the interstate and four-lane highways. Likewise, retail businesses located along a main street may value on-street parking and pedestrian and bicycle accommodations more than businesses located in a strip mall. Types of access to consider include:

- Bicycle accommodation (e.g., bike racks, wide lanes, paved shoulders)
- Pedestrian accommodations (e.g., sidewalks, crosswalks, lighting)
- Transit service (e.g., fixed bus routes, service hours and frequency, bus stops, shelters)
- Parking (e.g., adequate availability)
- Traffic flow (e.g., traffic signals, dedicated turn lanes)
- Rail service (e.g., proximity of nearest rail line, frequency of trains)
- Air service (e.g., proximity of nearest airport, type of service provided, highway access)
- Truck access (e.g., weight limits, clearance heights, street widths)
- Recreational/special transportation (e.g., snowmobiles, horses, ATVs)

You should also determine how businesses are likely to be impacted by your community's transportation needs. For example, if traffic flow on your community's main street is high and you decide to re-route some of the traffic to a different street, you should consider the potential impacts (e.g., increased pedestrian access

to street shops, and/or decreased visibility to motorists who normally would travel along the corridor) this decision may have on businesses located along your main street.

Some questions to consider when evaluating how your transportation element impacts businesses may include:

- How do your community's plans for accommodating transportation for retail areas impact the safe and efficient use by vehicles, pedestrians and bicyclists?
- How does your transportation element impact the number of vehicle parking spaces?
- How visible and recognizable will the retail area be to passing motorists once your transportation element is implemented?
- Does your transportation element physically divide your business community?

## Environmental considerations

Like economic development, transportation decisions can impact environmental quality either positively or negatively. You should develop your transportation element to enhance the positive impacts and avoid or minimize any negative impacts whenever possible.

When you consider environmental impacts of your transportation decisions, you should not only consider the natural environment (e.g., air, water, land), but also the built environment (e.g., aesthetics, existing residential and commercial areas). Both of these environments influence the quality of life within your community.

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### Figure 16: Agricultural, natural and cultural resources element (§66.1001(2)(e))

A compilation of objectives, policies, goals, maps and programs for the conservation, and promotion of the effective management, of natural resources such as groundwater, forests, productive agricultural areas, environmentally sensitive areas, threatened and endangered species, stream corridors, surface water, floodplains, wetlands, wildlife habitat, metallic and nonmetallic mineral resources, parks, open spaces, historical and cultural resources, community design, recreational resources and other natural resources.

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**When evaluating the potential impacts on the environment, you should consider the following questions:**

- How will the transportation decision affect the particular resource?
  - What actions can be taken to avoid, minimize and/or mitigate any negative impacts?
  - What (if any) will be the regional impacts?
  - How can our actions help to avoid, minimize or mitigate the impact?
- 

As you consider these issues, you should be familiar with legislative requirements for developing the Agricultural, Natural and Cultural Resources Element. (See Figure 16)

When determining the potential impacts your transportation decisions may have on the environment, you should consider the following areas, as applicable to your community:

- Air quality
- Water quality/storm water runoff
- Wetlands
- Noise
- Endangered and/or threatened species
- Historical and/or archeological sites
- Agriculture
- Parks, natural areas and other open spaces
- Coastal and shoreline resources

The Wisconsin DNR has compiled data that may help in identifying and predicting project impacts. (See Appendix 4.)

Although you may strive to avoid, minimize and mitigate impacts to both the natural and built environments, some negative impacts may still occur. For example, even the installation of a sidewalk may have minor negative impacts. While it may positively impact air emissions by encouraging people to walk instead of drive, it also increases the amount of impervious surface which in turn increases the amount of storm water runoff. When a negative impact cannot be avoided, you should try to minimize the severity of the impact.

In addition to addressing the impacts on the natural environment, you should also try to minimize the negative impacts

on your community's built and social environment. Some of the activities you can undertake to reduce the negative impact of your transportation project on the built and social environment include:

- Enhancing the aesthetics of a transportation project,
- Using traffic calming measures to minimize some of the negative aspects of vehicular traffic such as noise and speed, and
- Avoiding, when possible, the creation of barriers between neighborhoods.

### **Aesthetics**

Aesthetics refer to the “appearance and character” of an area. Generally speaking, a transportation project should reflect the aesthetics of your community. In rural areas, this may mean preserving scenic areas using easements, designing the project to fit into the natural landscape by following the contours of the land, and landscaping the project. In urban areas, this may include amenities such as specialized lighting, landscaping, and special pedestrian facilities (e.g., raised/contoured crosswalks, benches). It can also include designing bridges and transportation buildings (e.g., transit transfer points, rail depots) to reflect the character of the community using architectural styles that are similar to nearby buildings.

### **Avoiding the creation of barriers**

Transportation facilities can create significant barriers within a community. Often times, the greatest barriers are faced by pedestrians and bicyclists. For example, pedestrians and bicyclists are generally more wary of crossing multi-lane streets than 2-lane



plan. As you consider how to address the transportation needs within your community, it is important that you are familiar with the laws that may be associated with your decisions. These may include: historical and cultural resources preservation, wetlands and other environmentally sensitive areas protection, land acquisition laws and requirements, as well as any public notice requirements identified under statute. The following provides *a brief overview of just a few of the major laws that affect transportation.*

The **National Environmental Policy Act** (NEPA) of 1969 (42 U.S.C. 4332, as amended) directs all federal agencies to assess the environmental impacts of proposed major federal actions. This assessment requires the detailed documentation of the possible environmental impacts of a major proposed action, the local short term uses of the environment, the enhancement of long-term productivity, and any irreversible and irretrievable commitments of resources.<sup>i</sup> This process of developing a detailed environmental impact analysis ensures that the public is aware of any impacts before decisions are made and actions taken.

The **Wisconsin Environmental Policy Act** of 1972 (WEPA), Wisconsin Statutes §1.11, contains Wisconsin's environmental policies and is patterned after the national

environmental policies incorporated in NEPA. WEPA requires state agencies to study, describe and consider environmental impacts in their actions. If the action is considered a "major action significantly affecting the quality of the human environment," the law requires the agency to initiate several steps including: developing an environmental impact analysis (generally an Environmental Impact Statement or EIS) to circulate to other agencies and the public for review and comment; contacting other agencies to discuss the potential environmental impacts; and, holding a public hearing. WisDOT is responsible for developing environmental documentation for projects on the State Trunk Highway system (all numbered highways) and those transportation projects administered by the Department or funded with State and Federal funds. Local units of government may have requirements similar to WEPA that would require them to assess impacts on transportation facilities they develop without State or Federal assistance.<sup>ii</sup> If you have any questions relating to this law you should contact the WisDOT District office in your area (see Appendix 3 for contact information).

The **Clean Air Act** regulates the emissions of a variety of pollution sources ranging from utilities to dry cleaners to landfills to motor vehicles. Under the Clean Air Act, the United States Environmental Protection Agency (U.S. EPA) has established national ambient air quality standards (NAAQS). Communities that do not meet a specific NAAQS are considered to be a non-attainment area and must

follow specific procedures outlined in regulation. If your community is located within a non-attainment area (see Appendix 5 identifying Wisconsin Counties currently in non-attainment), you should contact your County Highway Commissioner, MPO or RPC, the WisDNR or the WisDOT District office to discuss how these air quality issues may impact your transportation element and overall local plan.

The Clean Air Act also requires States to prepare State Implementation Plans (SIPs). SIPs document how the State will bring non-attainment areas within the State into compliance with NAAQS. The U.S. EPA approves each SIP.

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### For more information on the Clean Air Act:

- contact the Wisconsin Department of Natural Resources (Appendix 4), the U.S. EPA (appendix 4), and/or
- review *The plain English guide to the Clean Air Act*. U.S. EPA, EPA-400-K-93-001, April 1993. [http://www.epa.gov/oar/oaqps/peg\\_caa/pegcaain.html](http://www.epa.gov/oar/oaqps/peg_caa/pegcaain.html)

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### Endnotes

<sup>i</sup>Wisconsin Department of Transportation, *Facilities Development Manual, National Environmental Law, 20-5-1*, February 15, 1998.

<sup>ii</sup>WisDOT, *Facilities Development Manual, State Environmental Statute, 20-20-1*, February 15, 1998.



# Chapter Implementation & funding

## Implementation and funding

Development of your transportation element should include defining your implementation strategies and mechanisms for monitoring the progress and success of your element. As you consider strategies to implement your transportation element, you should continually refer back to your community's transportation vision, goals and objectives.

This chapter discusses:

- the implementation element of your local comprehensive plan;
- implementation strategies and tools that may be used for your transportation element;
- funding considerations; and
- monitoring your plan and transportation element.

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**Figure 17:**  
**Implementation element**  
**(§66.1001(2)(i))**

A compilation of programs and specific actions to be completed in a stated sequence, including proposed changes to any applicable zoning ordinances, official maps, sign regulations, erosion and storm water control ordinances, historic preservation ordinances, site plan regulations, design review ordinances, building codes, mechanical codes, housing codes, sanitary codes or subdivision ordinances, to implement the objectives, policies, plans and programs contained in pars. (a) to (h). The element shall describe how each of the elements of the comprehensive plan will be integrated and made consistent with the other elements of the comprehensive plan, and shall include a mechanism to measure the local governmental unit's progress toward achieving all aspects of the comprehensive plan. The element shall include a process for updating the comprehensive plan. A comprehensive plan under this subsection shall be updated no less than once every 10 years.

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## Implementation Element

The Implementation Element requires that you identify strategies and actions your community will take to implement your local plan over the planning period. (See Figure 17.) The planning and implementation process should not be considered as occurring in a linear or consecutive pattern. Very often steps to address aspects of one element will need to be taken concurrently with steps needed to address issues for another element.

Although your community's efforts will be directed toward implementing your entire local comprehensive plan, some of the individual strategies will be element specific. As a result, some of your strategies will address your community's existing and future transportation needs. However, because transportation and land use are closely connected, you should consider strategies to implement both elements simultaneously. It is also important that the strategies you develop to implement each of the elements do not contradict or conflict with strategies implementing another element.

## Implementation strategies and tools

Once you have drafted your vision statement, identified the related goals and objectives, and assessed your community's needs, you should prepare written implementation strategies or action steps for your community to reference as transportation-related questions are raised and decisions are made.

Your implementation strategies should:

- reflect your vision, goals and objectives defined for the other planning elements;
- reflect your transportation vision statement, goals and objectives; and
- be consistent (as applicable) with state, regional and/or neighboring community transportation policies, and state/federal environmental regulations.

Examples of implementation strategies may include:

- fostering a comprehensive approach to promote and preserve a safe transportation system within the context of the three E's—engineering, enforcement, and education; and/or,
- encouraging pedestrian and bicycle travel by maintaining and enhancing the connectivity of related transportation facilities on the local street transportation system.

There are several tools that you may wish to use and/or consider as you develop strategies to implement your transportation element. The following provides a brief discussion of a few of the tools (indicated in bold text) your community may consider to implement your transportation element. Although each of these methods can be used separately, combining them will likely result in a more comprehensive implementation effort.

As discussed previously, **education and outreach** are critical to the successful implementation of your transportation element. It is important that both the members

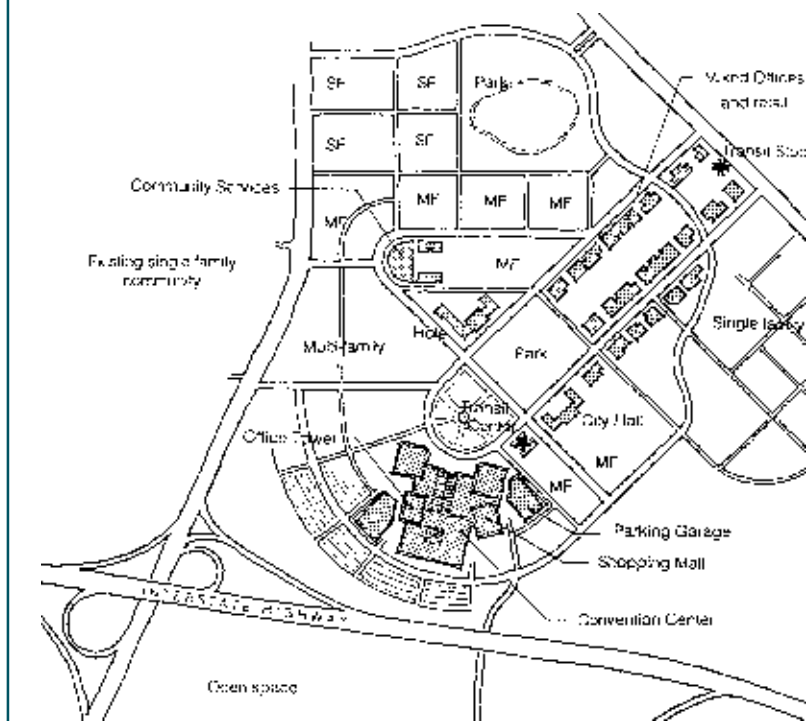
of your community and decision-makers are aware of your comprehensive planning initiative and understand how the goals and objectives within the plan are to be achieved.

In addition, it is important that your community define its standards for future development patterns specific to subdivision, land division, lot layout standards, location of driveways, and other land uses. **Zoning ordinances and subdivision and land division regulations** can help you to implement these strategies. Both methods are widely used to regulate land use and control community development patterns.

Zoning is used to govern how land is used within a community. There are four basic land use categories: agricultural, residential, commercial (business), and industrial (manufacturing). For each general category, there are several sub-categories that can further define the specified land use allowed in that zone or district. Each of these types of zoning regulations can help a community separate land uses that may not be compatible, such as industrial development located within a neighborhood setting.

Another option your community may consider as it defines standards for growth and development includes adopting traditional neighborhood development and conservation subdivision ordinances. While the law requires that communities with populations of at least 12,500 adopt a *traditional neighborhood development ordinance* (§61.1027) by January 1, 2002 it is not required that it be mapped. (Note: Currently this portion of the law is under

**Figure 18: Example of a traditional neighborhood development design (TNDs)**



**TNDs generally have a center and include a mix of neighborhood uses. They are designed to make walking and bicycling attractive while offering motorists many route options within the local grid system.**

**SF=single family dwellings      MF=multi-family dwellings**

review, and decisions as to whether it will continue to be a requirement are pending. As you develop your comprehensive plan you will need to be familiar with the current legislative requirements.) Generally, traditional neighborhood design promotes incorporating mixed use development concepts into neighborhood design. This means that a variety of uses may be incorporated into one area such as business, residential, and civic spaces which may help to decrease VMT and increase the viability of travel options such as bicycling and walking. (See Figure 18.)

Diagram provided courtesy of Citizens for a Better Environment.

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**A few resources to consider when developing and implementing your transportation element include:**

*Guide to Community Planning in Wisconsin*, Brian Ohm, UW-Extension, 2000.

*Smart Growth: Creating Communities for People*, Citizen's for a Better Environment, Allison Semandel & Michael Kinde, available Winter of 2000.

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As you consider how to accommodate future traffic along specific corridors within your community, it is also important to plan for **land acquisition** needs for both the short- and long-term components of your transportation element. As discussed in the corridor preservation section, preserving the right-of-way along a corridor is important to preserving the facility for potential future expansion. Therefore, you will need to develop strategies to acquire the needed land for future development.

A tool that your community may consider when preserving land for future right-of-way is **official mapping**. Official mapping allows villages, cities, counties and the state to prepare plans and maps showing the approximate location and width of future streets and highways. The purpose of an official map is to inform the public that identified land areas may be required for future rights-of-way. By officially mapping transportation corridors in advance of their need, public agencies can limit development in the corridor.<sup>i</sup> This prevents/limits development from taking place in designated areas of the corridor, and notifies area land owners of future transportation plans.

**Inter-governmental and inter-agency agreements** are another tool your community may want to consider when implementing your plan and each element. Agreements can be developed with different interests that may be affected by your local planning efforts, such as local governmental units, regional and state agencies, and neighboring communities. By developing these agreements,

future conflicts or disagreements may be minimized or avoided. Similarly, establishing these agreements may help to identify barriers and subsequently find solutions toward implementing your plan. These agreements should build upon the Intergovernmental Cooperation element (§66.1001(2)(g)) of your local plan, that requires you to include joint planning and decision making with other jurisdictions for siting and building of public facilities, and sharing of public services.

## **Funding considerations**

In order for your transportation element to be successful, it needs to be financially achievable. Therefore, although it is not required under the Comprehensive Planning Legislation, it is important that you conduct a financial analysis to calculate the cost of meeting your community's identified current and future transportation needs, and then compare this cost to an estimate of available resources.

This section discusses the basic elements of community financial planning by identifying the steps necessary to anchor your transportation element and local plan within your community's budget.

This analysis will guide your implementation strategies and help determine how much your community can afford now and in the future. Additionally, it will help you prioritize projects over the planning period and further achieve your community's goals. One option for conducting this analysis may include developing a Capital Improvement Program. The Capital Improvement Program helps communities plan for capital





- ensuring that the plan includes all nine elements;
  - demonstrating that the plan development process was designed to foster public participation throughout every stage of preparation as required by §66.1001(4)(a);
  - adoption of a resolution by a majority vote of the entire plan commission or other body of a local governmental unit authorized to prepare or amend a comprehensive plan (§66.1001(4)(b));
  - enacting an ordinance to formally adopt the plan (§66.1001(4)(c)) by a majority vote of the members elect as defined under §59.001(2m); and
  - holding at least one public hearing to discuss the proposed ordinance before it may be enacted (§66.1001(4)(d)).
- A Class 1 notice under ch. 985 must be published at least 30 days prior to the date of the hearing. (See Figure 19.)

Once the plan is adopted, you must send a copy to all of the following:

- Every government within the boundaries of the local governmental unit;
- The clerk of every local governmental unit that is adjacent to your community which is the subject of the plan;
- The Wisconsin Land Council;
- The Department of Administration (after September 1, 2003);
- The regional planning commission in which your local governmental unit is located; and
- The public library that serves the area in which your local governmental unit is located.

Although the legislation does not require it, you should also send a copy of your plan to the MPO, WisDOT Transportation District Office in your region, and the Wisconsin DNR.

### Ensuring consistent decision-making

Once your plan has been adopted, all programs and actions affecting land use within your community must be consistent with your comprehensive plan (§66.1001(3) pars. (a) to (s).) (See Figure 20.) The decisions you make and actions you take regarding development within your community must be consistent with your comprehensive plan. Therefore, it is important that as you consider implementing your transportation element, you include a discussion of both new projects and projects related to existing facilities, anticipated in both the short- and long-term portions of your transportation element.

Although it is unlikely that you will be able to identify the specific location of a new project, other aspects should be identified. Project information may include any expected capacity expansion projects, the general location and extent of new road and/or interchange needs, and any expected expansions or provisions for other modal services such as adding a new transit service or expanding existing service, providing additional bike accommodations, and/or pedestrian walkways. You should also identify projects related to existing facilities that may include more routine activities such as resurfacing and reconstruction of facilities expected over the life of your plan. As you identify

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### Figure 19: Minimum requirements of a Class 1 notice

- date, time and place of hearing;
  - summary information related to proposed comprehensive plan, or amendment;
  - contact information; and,
  - information on how to obtain a copy of the proposed comprehensive plan or amendment prior to the hearing.
- 

### Figure 20: Local actions must be consistent with adopted comprehensive plans—(§66.1001(3) pars (a) to (s))

Beginning on January 1, 2010, any program or action of a local governmental unit that affects land use shall be consistent with that local governmental unit's comprehensive plan...

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# Appendix 1: Contact information for Regional Planning Commissions (RPCs)

## North West Regional Planning Commission

1400 S River Street  
 Spooner, WI 54801  
 Phone: 715.635.54801  
 www.nwrpc.com

**Counties:** Ashland, Bayfield, Burnett, Douglas, Iron, Price, Rusk, Sawyer, Taylor, and Washburn

## North Central Wisconsin Regional Planning Commission

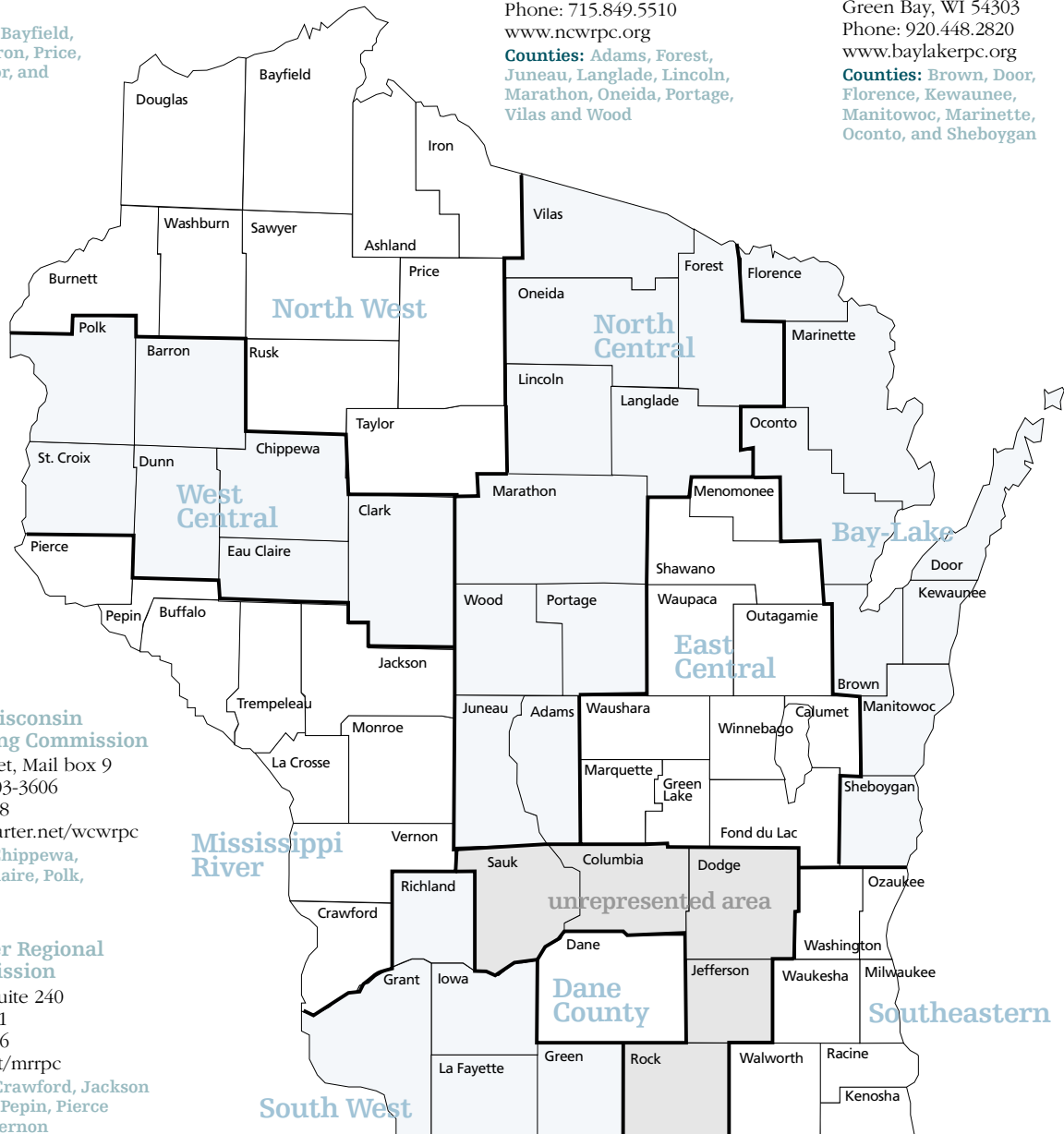
210 McClellan St, Suite 210  
 Wausau, WI 54403  
 Phone: 715.849.5510  
 www.ncwrpc.org

**Counties:** Adams, Forest, Juneau, Langlade, Lincoln, Marathon, Oneida, Portage, Vilas and Wood

## Bay-Lake Regional Planning Commission

Suite 211  
 Old Fort Square  
 211 N Broadway  
 Green Bay, WI 54303  
 Phone: 920.448.2820  
 www.baylakerpc.org

**Counties:** Brown, Door, Florence, Kewaunee, Manitowoc, Marinette, Oconto, and Sheboygan



## West Central Wisconsin Regional Planning Commission

800 Wisconsin Street, Mail box 9  
 Eau Claire, WI 54703-3606  
 Phone: 715.836.2918  
 http://webpages.charter.net/wcwrpc

**Counties:** Barron, Chippewa, Clark, Dunn, Eau Claire, Polk, and St. Croix

## Mississippi River Regional Planning Commission

1707 Main Street, Suite 240  
 La Crosse, WI 54601  
 Phone: 608.785.9396  
 www.centurytel.net/mrrpc

**Counties:** Buffalo, Crawford, Jackson, La Crosse, Monroe, Pepin, Pierce, Trempealeau and Vernon

## South West Wisconsin Regional Planning Commission

426 Karrman Library  
 Plateville, WI 53818  
 Phone: 608.342.1214  
 www.swwrpc.org

**Counties:** Grant, Green, Iowa, Lafayette, and Richland

## Dane County Regional Planning Commission

217 S Hamilton, Suite 403  
 Madison, WI 53703-3238  
 Phone: 608.266.4137  
 www.co.dane.wi.us/rpc/rpc.htm

**Counties:** Dane

## Southeastern Wisconsin Regional Planning Commission

916 N East Avenue  
 PO Box 1607  
 Waukesha, WI 53187-1607  
 Phone: 262.547.6721

**Counties:** Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington and Waukesha

## East Central Wisconsin Regional Planning Commission

132 Main Street  
 Menasha, WI 54952-3100  
 Phone: 920.751.4770  
 www.eastcentralrpc.org

**Counties:** Calumet, Fond du Lac, Green Lake, Marquette, Menominee, Outagamie, Shawano, Waupaca, Waushara and Winnebago

## Appendix 2: Contact information for the Metropolitan Planning Organizations (MPOs)

**East Central Wisconsin Regional Planning Commission**  
(Appleton-Oshkosh)  
132 Main Street  
Menasha, WI 54952-3100  
phone: 920.751.4770  
fax: 920.751.4771  
email: anyone@EastCentralRPC.org  
<http://www.eastcentralrpc.org>

**State Line Area Transportation Study**  
(Beloit)  
100 State Street  
Beloit, WI 53511  
phone: 608.364.6690

**Dubuque Metropolitan Area Transportation Study**  
(Dubuque)  
P.O. Box 1140  
Dubuque, IA 52004  
email: ecia@mwcii.net  
<http://www.iarcog.com/ecia.htm>

**Janesville Area Transportation Study**  
Janesville Planning Department  
18 North Jackson Street, P.O. Box 5005  
Janesville, WI 53547-5005  
phone: 608.755.3084  
fax: 608.755.3196

**La Crosse Area Planning Committee**  
400 La Crosse Street  
La Crosse, WI 54601  
phone: 608.789.7512  
email: ruckenbrodd@cityoflacrosse.org

**Madison Area MPO**  
City of Madison  
217 S. Hamilton, Suite 217  
Madison, WI 53703  
phone: 608.266.4137  
fax: 608.266.9117

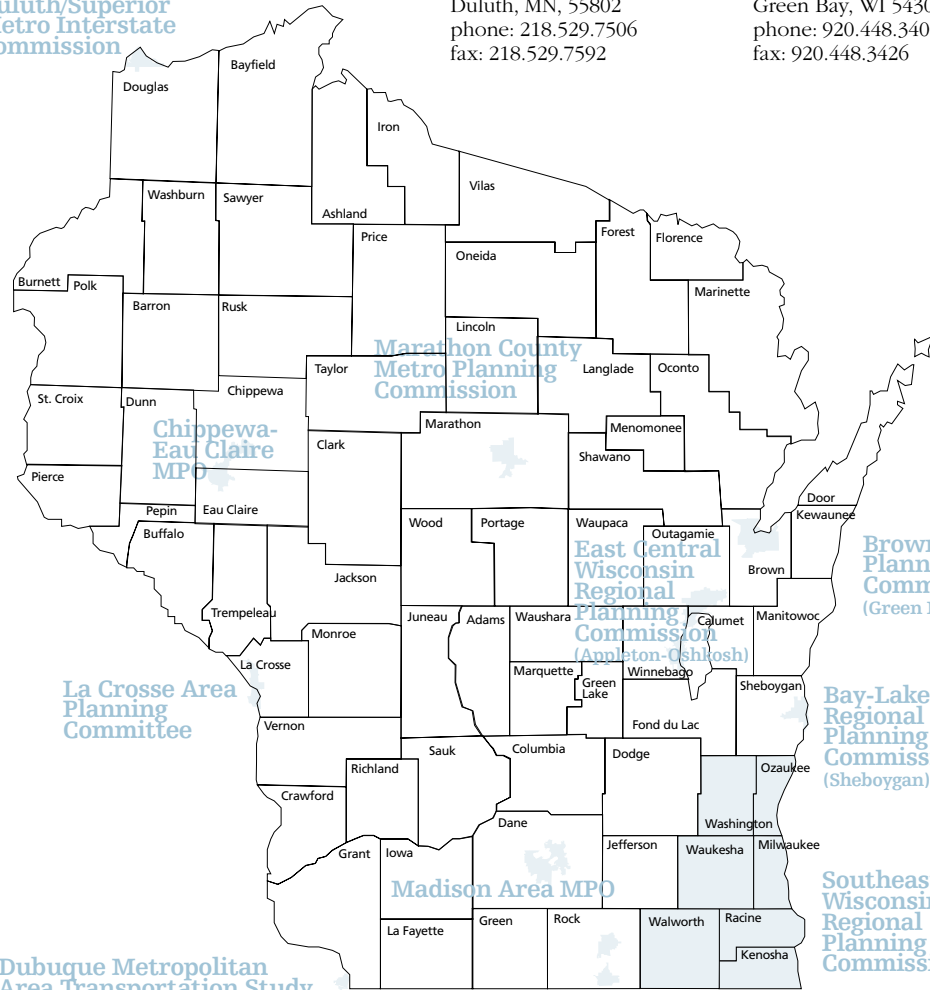
**Bay-Lake Regional Planning Commission**  
(Sheboygan)  
Old Fort Square, Suite 211  
211 North Broadway  
Green Bay, WI 54303-2757  
phone: 920.448.2820  
fax: 920.448.2823  
<http://www.baylakerpc.org/index.htm>

**Marathon County Metro Planning Commission**  
(Wausau)  
Marathon County Planning Department  
210 River Drive  
Wausau, WI 54403-5449  
phone: 715.261.6043  
fax: 715.261.6016  
email: dtmack@mail.co.marathon.wi.us

**Superior-Duluth Metro Interstate Commission**  
Arrowhead Regional Development Commission  
221 West 1st Street  
Duluth, MN, 55802  
phone: 218.529.7506  
fax: 218.529.7592

**Brown County Planning Commission**  
(Green Bay)  
City Hall, Room 608  
100 North Jefferson Street  
Green Bay, WI 54301-5026  
phone: 920.448.3400  
fax: 920.448.3426

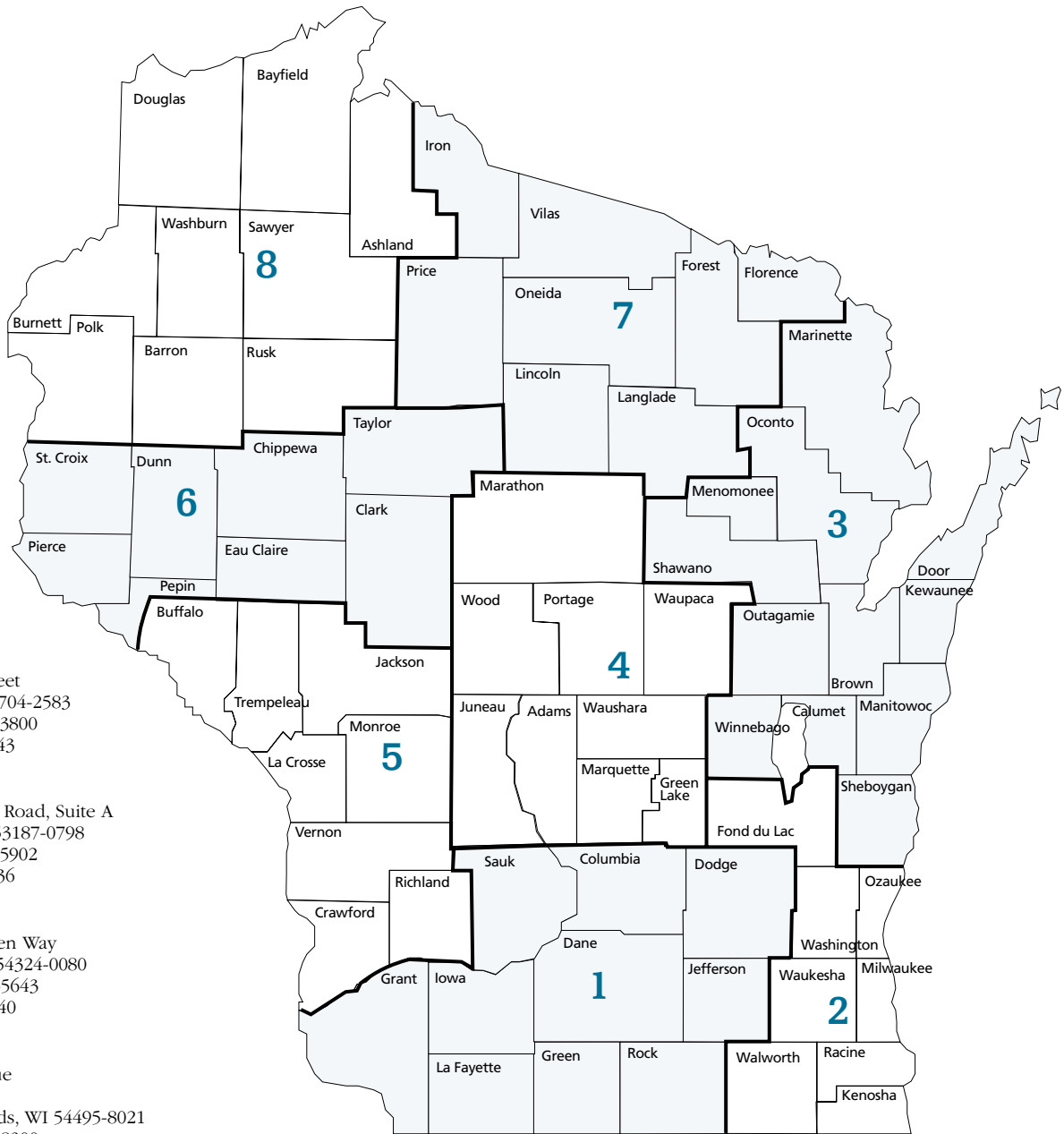
**Duluth/Superior Metro Interstate Commission**



**Southeastern Wisconsin Regional Planning Commission**  
(Kenosha, Milwaukee, Racine)  
Old Courthouse  
916 N. East Avenue, P.O. Box 1607  
Waukesha, WI 53187-1607  
phone: 414.547.6721  
fax: 414.547.1103  
email: sewerpc@globaldialog.com  
<http://www.wisrep.org/SEWRPC/sewrpc.html>

**Chippewa-Eau Claire Metropolitan Planning Organization**  
West Central Wisconsin Regional Planning Commission  
800 Wisconsin Street Mailbox #9  
Eau Claire, WI 54703-3606  
phone: 715.836.2918  
fax: 715.836.2886  
email: wcrpc@charter.net  
<http://webpages.charter.net/wcrpc>

## Appendix 3: Contact information for WisDOT (District offices)



### District 1

2101 Wright Street  
Madison, WI 53704-2583  
Phone: 608.246.3800  
Fax: 608.246.3843

### District 2

2000 Pewaukee Road, Suite A  
Waukesha, WI 53187-0798  
Phone: 262.548.5902  
Fax: 262.548.8836

### District 3

944 Vanderperren Way  
Green Bay, WI 54324-0080  
Phone: 920.492-5643  
Fax: 920.492-5640

### District 4

1681 2nd Avenue  
P.O. Box 8021  
Wisconsin Rapids, WI 54495-8021  
Phone: 715.421-8300  
Fax: 715.423-0334

### District 5

3550 Mormon Coulee Rd.  
LaCrosse, WI 54601-6767  
Phone: 608.785.9022  
Fax: 608.785.9969

### District 6

718 W. Clairemont Ave.  
Eau Claire, WI 54701-5108  
Phone: 715.836-2891  
Fax: 715.836-2807

### District 7

Hanson Lake Road  
Rhineland, WI 54501-0777  
Phone: 715.365.3490  
Fax: 715.365-5780

### District 8

1701 N. 4th St.  
Superior, WI 54880-1068  
Phone: 715.392.7925  
Fax: 715.392.7863

## Appendix 4: Resource directory: agency resources, information & reference list

### Agency resources

The sources listed below are not all-inclusive. Instead, the list provides a sample of agencies that may have information you could use in preparing your transportation element. Other sources of information (e.g., county government, neighboring communities, MPO/RPCs) are not listed.

The State of Wisconsin and the U.S. Federal Government both provide general web pages that offer links to a variety of state and federal agencies and local governments. The web addresses are:

**Wisconsin**  
[www.wisconsin.gov](http://www.wisconsin.gov)

**United States**  
[www.firstgov.gov](http://www.firstgov.gov)

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#### Demographic

**U.S. Census Bureau**  
Washington, DC 20233  
301.457.4608  
[www.census.gov](http://www.census.gov)

**Wisconsin Department of Administration**  
101 East Wilson St.  
Madison, WI 53707  
608.266.1741  
[www.doa.state.wi.us](http://www.doa.state.wi.us)

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#### Economic development

**Wisconsin Department of Commerce**  
201 W. Washington Ave.  
Madison, WI 53703  
608-266-1018  
[www.commerce.state.wi.us](http://www.commerce.state.wi.us)

**University of Wisconsin –Extension**  
432 N. Lake St.  
Madison, WI 53706  
608.262.3980  
<http://www1.uwex.edu/>  
(Note: Extension offices are located in every Wisconsin county. You should contact your county extension office before contacting the main office in Madison. Contact information should be listed in your local telephone book.)

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#### Environment

**U.S. Environmental Protection Agency (Region 5)**  
77 W. Jackson Blvd.  
Chicago, IL 60604  
312.353.2000 or 800.621.8431  
[www.epa.gov](http://www.epa.gov)

**U.S. Fish & Wildlife Service Region 3**  
Federal Drive  
BHW Federal Building  
Fort Snelling, MN 55111  
612.713.5360 or 800.657.3775  
[www.fws.gov](http://www.fws.gov)

**U.S. Geological Survey State Representative Office**  
8505 Research Way  
Middleton, WI  
53562-3581  
608.821.3801 [www.usgs.gov](http://www.usgs.gov)

**Natural Resource Conservation Service –Wisconsin State Office**  
6515 Watts Rd  
Madison, WI 53719-2726  
608.276.8732  
[www.nrcs.usda.gov](http://www.nrcs.usda.gov)

**Wisconsin Department of Natural Resources**  
101 S. Webster  
P.O. Box 7921  
Madison, WI 53707-7921  
608.266.2621  
[www.dnr.state.wi.us](http://www.dnr.state.wi.us)

**State Historical Society**  
816 State St.  
Madison, WI 5306-1482  
608.264.6400  
[www.shsw.wisc.edu](http://www.shsw.wisc.edu)

**Wisconsin Agricultural Statistics Service**  
P.O. Box 8934  
Madison, WI 53708-8934  
608.224.4848 or 800.789.9277  
[www.nass.usda.gov/wi/](http://www.nass.usda.gov/wi/)

**University of Wisconsin–Extension**  
432 N. Lake St.  
Madison, WI 53706  
608.262.3980  
<http://www1.uwex.edu/>  
(Note: Extension offices are located in every Wisconsin county. You should contact your county extension office before contacting the main office in Madison. Contact information should be listed in your local telephone book.)

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#### Land use, mapping, and zoning

**Wisconsin Department of Administration**  
101 East Wilson St.  
Madison, WI 53707  
608.266.1741  
[www.doa.state.wi.us](http://www.doa.state.wi.us)



## Information & reference list

Note that the materials included below are not all-inclusive, but only a sample of materials available. In addition, the web site addresses listed in the Information Resources can provide additional references.

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### Access management & corridor planning

*Corridor Preservation & Access Management Guidance, Guidelines to Assist Metropolitan Planning Organizations in Addressing Corridor Preservation and Access Management Concerns in their Communities.*  
WisDOT, January 1994

*WisDOT Access Management System Plan*, WisDOT

*Idaho Corridor Planning Guidebook*, Idaho Transportation Department, February 1998  
<http://www2.state.id.us/itd/index.htm>

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### Airport planning

*Land use Compatibility Around Airports, A Guide for Effective Lane Use Planning*  
FAA, September 1993

*Wisconsin State Airport System Plan 2020*  
WisDOT, February 2000

*A Guide for Land Use Planning Around Airports in Wisconsin*  
WisDOT, 2001

*Wisconsin Airport Development Handbook*  
WisDOT, March 2000

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### Bicycle planning

*Wisconsin Bicycle Planning Guidance—Guidelines for Metropolitan Planning Organizations & Communities in Planning & Developing Bicycle Facilities*,  
Wisconsin Department of Transportation, 1993

*Wisconsin State Bicycle Plan 2020*  
WisDOT, December 1998

*Guide for the Development of Bicycle Facilities*  
American Association of State Highway and Transportation Officials, 1999  
<http://www.aashto.org>  
202.624.5800

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### Community planning: general

*Guide to Community Planning in Wisconsin*  
Brian Ohm, University of Wisconsin—Extension  
*Smart Growth: Creating Communities for People*  
Allison Semandel and Michael Kinde, Citizens for a Better Environment, 2000  
<http://www.cbemw.org>  
414.271.7280

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### Environmental justice

*An Overview of Transportation and Environmental Justice*  
Federal Highway Administration, FHWA-EP-00-013, May 2000

FHWA Environmental Justice Internet Library  
<http://www.fhwa.dot.gov>  
(key word search environmental justice)

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### Highway planning

*Wisconsin State Highway Plan 2020*, WisDOT, February 2000  
*6-Year Highway Improvement Program*, WisDOT.

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### Pedestrian planning

*Wisconsin Pedestrian Planning Guidance—Guidelines for Metropolitan Planning Organizations & Communities in Planning & Developing Pedestrian Facilities*  
WisDOT, 1993

*Wisconsin State Pedestrian Plan 2020*, WisDOT, 2001  
(tentative release date)  
*Main Street...when a highway runs through it: A handbook for Oregon communities*  
Oregon Department of Transportation and Oregon Department of Land Conservation and Development (DLCD), 1999

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### **Public involvement**

*Transportation Action: A Local Input Model to Engage Community Transportation Planning*  
North Central Regional Center for Rural Development, April 1996  
*The Neighborhood Charrette Handbook*  
Dr. James A. Segedy and Bradley E. Johnson. <http://ww.louisville.edu/org/sun/planning/char.html>  
*Public Involvement Techniques for Transportation Decision-making*  
FHWA and FTA, 1996.  
<http://www.fhwa.dot.gov/reports/pittd/cover.htm>

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### **Rail planning**

*Wisconsin State Rail Plan 2020*  
WisDOT, 2002  
(tentative release date)

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### **Secondary impacts**

*Indirect and Cumulative Effects Analysis for Project-Induced Land Development, Technical Reference Document*  
WisDOT  
*Community Impact Assessment: A Quick Reference for Transportation*  
Federal Highway Administration, FHWA-PD-96-036, September 1996

*Community Impact Mitigation: Case Studies*  
Federal Highway Administration, FHWA-PD-98-024, May 1998

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### **Transit planning**

*Wisconsin State Transit Plan 2020*  
WisDOT, 2003  
(tentative release date)

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### **Transportation planning: general**

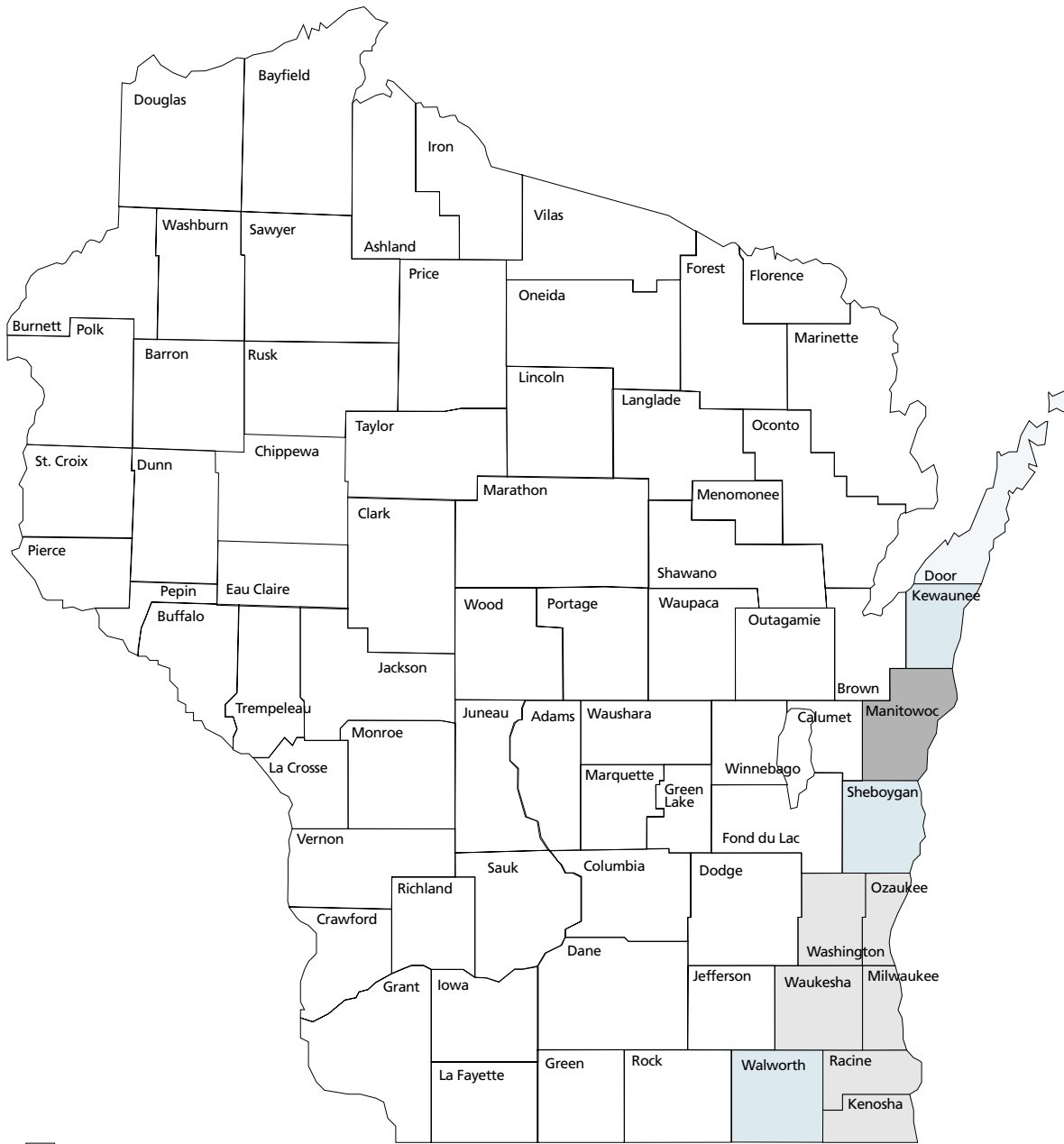
*Translinks 21: A Multi-modal Transportation Plan for Wisconsin's 21<sup>st</sup> Century*  
WisDOT, February 1995  
*Your Community's Transportation System: A Transportation Element Guidebook*  
State of Washington, Department of Community Development, Growth Management Division, June 1993. 206.753.2222

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### **Visioning**

*Building Our Future: A Guide to Community Visioning*  
University of Wisconsin -Extension, 2000  
*Towards Managing Growth in Washington: A Guide to Community Visioning*  
State of Washington, Department of Community Development, Growth Management Division, October 1991. 206.753.2222

## Appendix 5: Wisconsin counties in non-attainment and maintenance



- attainment area
- severe non-attainment area
- moderate non-attainment area
- maintenance area
- rural transport non-attainment area

















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### Rural and Small Urban Area Public Transportation Assistance Program: Section 5311

Allocations to the State are set at the federal level. Funds may be used for operating assistance, and capital assistance. Eligible public transportation services include public transportation service operating or designed to operate in non-urbanized areas (less than 50,000 population).

For more information, contact WisDOT, Division of Transportation Investment Management, Bureau of Transit and Local Roads, 608.266.3973.

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### Rural Transportation Assistance Program (RTAP)

This program funds projects with the following qualities: furthering the development of skills and abilities of persons involved in providing passenger service to the state's rural and small urban areas; encouraging development of professional networks among Wisconsin transportation providers; and offsetting some of the costs of attending national, state and local transit training and educational programs.

For more information, contact WisDOT, Division of Transportation Investment Management, Bureau of Transit and Local Roads, 608.266.3973.

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### Specialized Transportation Assistance Program for Counties

Allocations under this formula program are based upon the proportion of the state's elderly and disabled population located in each county, subject to two minimums: no county can receive less than a ½-percent of the total annual appropriation; and no county can receive an allocation smaller than they received in 1992. A local match of 20-percent is required.

Eligible expenditures include:

- directly provided service;
- purchase of transportation service from any public or private organization;
- a user-subsidy for elderly or disabled passengers for their use of the transportation service;
- volunteer driver escort reimbursement;
- performing or purchasing planning or management studies on transportation;
- coordinating transportation services;
- performing or purchasing in-service training relating to transportation services; and/or
- purchasing capital equipment for transportation services.

For more information, contact WisDOT, Division of Transportation Investment Management, Bureau of Transit and Local Roads, 608.266.1650.



## Appendix 7: Public involvement techniques

### How can you reach the public?

There are a number of ways you can reach the public. These may include using mass media, implementing two-way communication techniques and employing other avenues to provide and receive information. It is not necessary to utilize all of the techniques indicated in Figures 21 and 22. Instead, you can select and tailor the methods you believe will best suit your public outreach needs.

Utilizing the media (e.g., newspapers, radio, television) to advertise your planning effort will facilitate participation in your public involvement process. Ways to conduct outreach through the mass media may include:

- ads in community calendars
- display ads in newspapers
- newspaper articles
- news coverage
- radio call-in shows
- public service announcements
- meetings with reporters

The people interested in your transportation planning process will expect to be kept informed and updated regularly. A useful method to start this process is to develop and maintain an inclusive mailing list. One of the ways in which you can assemble and/or refine your mailing list during the initial stages of your plan development is to inform your community that you are starting a transportation planning process. This may be communicated by circulating brochures, pamphlets or other materials to the general public and organizations throughout

your community or by posting them in libraries and other public spaces. The brochure/pamphlet can be used as an effective two-way communication tool to not only introduce your planning initiative, but also assess the level of interest in your community. By including a built-in response mechanism, such as a response card into your brochure, you will provide a means for the public to become part of the process by indicating their interest in receiving updates and learning more about the initiative.

As you develop an approach to meet the goals of your public involvement process, your community involvement toolbox will likely contain a variety of strategies. You will not only want to have opportunities to convey information to the community but you will also want to listen to what the public has to say. Each of the methods highlighted in Figures 21 and 22 can be used individually or in combination and can help expand and enhance your public involvement process.

More information on most of these public involvement approaches, as well as other techniques can be found in the Federal Highway Administration/Federal Transit Administration publication, *Public involvement techniques for transportation decision-making*, dated September 1996. This publication is available on the Internet at: <http://www.fhwa.dot.gov/reports/pittd/cover.htm>

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Figure 21: Other information vehicles

- mailing lists
- brochures/pamphlets
- newsletters
- informational flyers
- web site
- surveys/questionnaires
- information hotline

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Figure 22: Two-way communication techniques

- public meetings
  - symposiums
  - public forums
  - workshops
  - listening sessions
  - focus groups
  - open houses
  - present information at community meetings
  - public hearings
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## Appendix 8: Wisconsin’s Adopted Draft and Final Comprehensive Plans

The following is a brief list of some Wisconsin communities that have developed comprehensive plans in response to the Comprehensive Planning Legislation. Please note that these plans have not been reviewed or certified to ensure that they meet the requirements of the Comprehensive Planning Legislation.

<b>Community and plan title</b>	<b>Counties of Jurisdiction</b>	<b>Draft/final</b>	<b>Date of plan</b>
City of Mauston Comp Plan	Juneau	draft	March 00
Village of Cottage Grove Comp Plan	Dane	final	March 00
City of Watertown Comp Plan	Jefferson, Dodge	draft	May 00
Town of Scott	Burnett	final	July 00
City of Altoona	Eau Claire	final	August 00
Belmont Comprehensive Plan Summary	Lafayette	final	January 00
Sheboygan Comprehensive Plan	Sheboygan	final	October 00
City of Sheboygan Comprehensive Plan	Sheboygan	draft	October 00

