Transportation provides connections to opportunity
The 2040 Transportation Policy Plan presents the region’s policies and plans to guide the development of the region’s transportation system. It carries forward the vision of Thrive MSP 2040 for growth and development of the Twin Cities region toward economic success and vibrancy in the decades to come.

As the region’s federally designated metropolitan planning organization, the Metropolitan Council prepares a transportation plan for all forms of travel in the region. This transportation plan and other Metropolitan Council plans are prepared with input from many sources, including the region’s counties, cities, and towns, which use these plans as a guide in their own planning processes.

The Council embarks on a major update once every 10 years that aligns with the Regional Development Guide. In between, we put together minor updates. This is a minor update that includes changes to investments and revenues, emerging trends and keeps the Metropolitan Planning Organization in federal compliance. It includes this Overview as well as the complete plan located online at metrocouncil.org/tpp.
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Note: This document contains the overview/summary of the Transportation Policy Plan. For the full document, including appendices, visit metrocouncil.org/tpp.
Our region is a great place to live, work, and do business.
Transportation provides connections to opportunity

In the Twin Cities metro region, we are on the move to our jobs, our businesses, schools, and places of worship. We run errands, gather with family and friends, move goods, deliver services, and attend sports and cultural events. The highways, rail lines, buses, airports, walkways, and bikeways that make up our transportation system are essential to the quality of our lives today and in the years to come. They connect people with places, opportunities, and each other. And they don’t happen by chance. Our transportation system is the result of years of planning—in the past, currently and into the future.

COVID-19 effects travel patterns, revenue sources and equity. The 2020 COVID-19 (coronavirus) outbreak has had and will continue having significant impacts on the regional transportation system and its funding streams. Travel on the region’s highways declined as much as 70% in the weeks following Minnesota’s first COVID-19 case. In that first month, express bus and Northstar ridership declined around 90%, while light rail ridership was down more than 70% and local bus ridership was down about 60%. In addition, a substantial shift to teleworking from home has reduced the work commute during peak congestion hours. These shifts may only be short-term, or may have lasting impacts on travel choices into the future.

In addition, these decreases in travel are affecting important transportation revenue sources. There are severe near-term shortfalls, and in the future funding may grow at slower rates than assumed in this plan. Federal and state gas tax revenues and transit fares have significantly dropped, and as auto sales slow, so does the revenue from Minnesota’s Motor Vehicle Sales Tax, a major funding source for transit operations. Changing travel and revenue trends, and other trends affecting transportation, will be followed throughout the course of the outbreak. These will all need to be fully analyzed as the outbreak subsides to fully understand the long-term effects on the region’s transportation system.
Regional disparities. We do not fully know or understand the long-term impact of the COVID-19 (coronavirus) outbreak on our transportation system and the people it serves. It is particularly unclear what kind of impacts these short-term or long-term changes to travel options may have for different population groups.

We do know that Minnesota has some of the greatest health and economic disparities in the country between whites and people of color and American Indians. We also recognize the heavy toll the outbreak is taking on communities that are already significantly impacted by these inequities. Our region needs to address these disparities as part of a broad range of public investments in housing, transportation, education, and economic opportunity.

This update does not seek to take these significant changes into account. Rather Chapter 14, the Work Program, includes a commitment to studies that will analyze, account for and help predict the long-term impacts of the COVID-19 outbreak; as well as inequities found in communities across the region. Where applicable, the results of these studies will be incorporated as amendments into the Transportation Policy Plan. These revisions would make necessary adjustments to transportation revenues and expenditures and will better describe and account for longer term travel changes.

Metropolitan Council. The Metropolitan Council was created by the Minnesota Legislature in 1967 to address region-wide challenges with region-wide solutions. The Metropolitan Council plans for the orderly and economical development of the seven-county metro area. The orderly and economical development of the region is reflected in thoughtful, coordinated, and relevant plans for investing in infrastructure and accounting for future needs to make the best use of limited resources.

The Council also delivers region-wide services that cannot be provided by any single city or county. These include transit, wastewater treatment, regional parks, and affordable housing. In all of its work, the Metropolitan Council’s guiding principles are integration, collaboration and accountability. The Metropolitan Council's planning region includes Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties. As required by federal law, the Transportation Policy Plan also includes developed portions of southeast Sherburne and Wright counties in the transportation planning area, depicted in Figure 1.
Figure 1: Planning Area for the Twin Cities Region
Working together. The Metropolitan Council’s work, including this transportation plan, is guided by input from and partnerships with the region’s counties, cities, and towns; transit providers throughout the region; the governor and the state legislature; county and municipal staff; the general public; and both the non-profit and private sectors. Metropolitan Council plans, like this one, are used by the region’s counties, cities, and towns as guides in their own planning processes.

Groups with special interests, such as those who advocate for more bike access or those interested in business growth, are important partners of the Metropolitan Council. The Council also collaborates with government agencies, both federal and state, such as the US Department of Transportation, the Minnesota Department of Transportation, Minnesota Pollution Control Agency and the Metropolitan Airports Commission. Individual residents collaborate with the Council as users of Council services, by expressing their concerns and ideas, and by participating in public engagement activities, as outlined in the Council’s Transportation Public Participation Plan.

Thrive MSP 2040. Thrive MSP 2040, adopted in 2014, is the region’s long-term development plan for the seven-county area. Thrive MSP 2040 provides a vision for our region’s economic growth and prosperity, and sets the foundation for policy plans developed by the Metropolitan Council including transportation, land use, water use, wastewater, housing, and parks. It guides coordinated planning among local, regional, and state governments, and promotes partnerships that foster the prosperity, stewardship, equity, sustainability, and livability of the region.

You can learn more about Thrive MSP 2040 at thrivemsp.org.

ADVANCING A BOLD REGIONAL VISION

Thrive MSP 2040, the region’s long-term development plan for the seven-county area, sets the foundation for this 2040 Transportation Policy Plan (2020 update) and other policy plans developed by the Metropolitan Council. Thrive MSP 2040 recommends that as a region, we take these important steps regarding transportation:

- Invest so that the region can preserve, maintain, and operate a safe and secure transportation system for everyone into the future.
- Provide effective, reliable, and affordable connections between all types of transportation modes.
- Strengthen the region’s transportation system to support the current and future vitality and prosperity of the Twin Cities region and the state of Minnesota.
- Plan, build and operate a transportation system that protects the natural environment as well as communities most affected by highway noise, compromised air quality, and splintered neighborhoods. This includes advancing equity for historically underserved and underrepresented people, and contributing to our communities’ livability and sustainability.
- Use investments to shape development and respond to how land use influences travel.
- Advance prosperity by balancing transportation planning, investments, and operations across the region.
About this plan

**2040 Transportation Policy Plan (2020 update).** The Metropolitan Council initially adopted the **2040 Transportation Policy Plan** in January 2015, and the plan was updated in 2018. The 2020 update can be found in its entirety at metrocouncil.org/tpp. The plan sets policies for the region’s transportation system and is an important tool in transportation planning and funding for jurisdictions throughout the region. It is informed by **Thrive MSP 2040**, the region’s long-term development plan.

The 2040 Transportation Policy Plan (2020 update) also contains updated investment (funding) plans for the transportation system based on different funding scenarios. The plan reflects data analysis and policy discussion, an extensive public engagement process, and input from local and regional policymakers, business owners, and advocates for community and transportation organizations. The 2040 Transportation Policy Plan includes federal requirements for transportation planning, and requirements for both performance standards and for environmental justice (delivering equity for historically underrepresented communities including people of color and American Indians, and people who have low incomes.)

**The long-range planning process.** The 2040 Transportation Policy Plan identifies goals, strategies, and investments for the regional transportation system that work toward the desired outcomes found in **Thrive MSP 2040**, the region’s development guide. State plans, system and corridor studies, and the conditions of special funding programs influence the plan’s strategies and investments for the region’s highways and roads, transit and transitways, bike and pedestrian infrastructure, and aviation and freight.

All proposed federally funded transportation projects in the Metropolitan Council’s planning region are included in the Transportation Improvement Program (TIP). TIP projects are programmed in four-year cycles; the program includes major local projects, projects...
awarded federal funds through the regional solicitation or other competitive federal grants, and projects programmed by regional transit providers or the Minnesota Department of Transportation (MnDOT). The annual Transportation Improvement Program is found in the plan’s Appendix B.

Whether a state project led by MnDOT, a local project led by a county, or a transit project led by a transit provider, as projects are completed, the Council monitors changes in how well the transportation system is performing as the result of these investments. This assessment provides the Council with insights on where investments are most needed and the types of investment that gain the most benefits for the region.

Throughout these steps, the Council regularly engages in discussion and feedback from policymakers and technical partners throughout the region, and incorporates ideas and feedback from other regional stakeholders, including residents, business owners, and advocates for various community and transportation organizations.

**Overview of the 2040 Transportation Policy Plan (2020 update).** The Overview of the 2040 Transportation Policy Plan (2020 update) is the document you are reading. The Overview explores the characteristics of the seven-county metropolitan region and the importance of its multi-faceted transportation system to our quality of life. You will learn about the challenges our transportation system faces, and plans to meet these challenges. Also included are goals and objectives for our transportation system, the impact of technology, how outcomes are measured and reported, and how investing in the transportation system affects our everyday lives.
A Snapshot of Our Thriving Region

Our transportation system — from planning and funding, to operations and maintenance — doesn’t happen in a vacuum. The characteristics of our region, how it has evolved and how it is changing, are integral to the ways we travel, and they inform this transportation plan.

Land, People, Economy

• The Metropolitan Council’s planning region is 1.9 million acres of land and water, or about 3,000 square miles. It includes 182 towns and cities in seven Minnesota counties: Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington. The 2040 Transportation Policy Plan (2020 update) includes these seven counties and the developed areas of Sherburne and Wright counties (along U.S. Highway 10 and I-94).

• Around 59% of the region’s land is used for agriculture or is open space, including woodlands, wetlands, and water. A third of the region (31%) is developed, or built, including areas for residential, commercial, industrial, and institutional development, plus roadways. Of the total developed areas, nearly 75% are residential. About 10% of the region is dedicated to park and recreational spaces and facilities. How land is used in the region, including how densely or sparsely populated residential sections of our region are, has a big effect on how our transportation system performs and how it evolved and changes.
Why and How We Travel

Residents of the Twin Cities travel within the region for many reasons. Who we are, our incomes, our age, and where we live affects why we travel and what type of transportation mode we use. For example, 40% of travel by residents under 18 years old is to school and back. For those aged 18 through 64 who are working, 43% of trips are work commutes or travel while at work.

The vast majority of our trips are made by personal vehicle and this will continue to be true in the future. However, many of us use a mix of transportation modes, which means our travel is multimodal. All of us are pedestrians, at some time walking or wheeling to our destinations, to a vehicle, or to transit. More of us are walking as a chosen transportation mode especially if we live close to our destinations. Every day thousands of multimodal commuters park in free, transit-served lots, take transit from there to their destinations, and walk or wheel the rest of the way. Bicycle commuting continues to increase regardless of the season.

Transportation, Land Use, and Development

How our region’s land has developed, and what new development is occurring or planned, has a sizeable impact on our transportation system. Land use and development influences where we choose to live; what housing is available to us near work, family, or school; and where available jobs or leisure opportunities are located.

Urban neighborhoods built before the late 1940s included single family homes and multifamily dwellings on modest lots within walking distance of commercial corridors and transit. The “streetcar bungalow,” a single-family home design built by the thousands in the 1920s, is nicknamed for its convenience to transit. Today, residents of these urban neighborhoods continue to walk, bike, or use transit more than suburban residents, in part because their neighborhoods were designed not for automobiles but for pedestrians and transit.

Our region continues to grow – both in the core cities and throughout developed and developing suburbs. Over time, growth has affected transportation patterns and the development of our transportation system significantly. Our reality today includes increased automobile ownership and use, longer vehicle trips, less carpooling, and a lower percentage of transit use, which have generated a high level of traffic and congestion.
congestion. On the other hand, current land development in the region reflects a changing trend. The migration from urban core to suburban communities has subsided. More than half of housing units built in the region since 2009 are multifamily units. Development and re-development of land for housing in the urban areas have increased dramatically. For example, in the area designated as Downtown Minneapolis, the number of residents since 2006 has increased by 25% to 39,960 (February 2016, Downtown Council). But it’s not just in the city—new housing, including multifamily, is also on the rise in suburban communities. Transportation investment has an influence on overall community development, and vice versa.

Although recent development has included an increased focus on urban communities, particularly along transitways, growth is forecast in communities throughout the region. With that growth, all communities will have different needs going forward. To prosper, they will need a range of housing, including attached housing that is mutually supportive of transit services. As the region grows responsibly, its future form will be more varied in all places.

Recent growth in the region has included commercial needs for new warehouse, shipping, and manufacturing facilities. Many of these have resulted in development on more-affordable land in what is termed the “suburban edge” – for example, Rogers, Maple Grove, or Shakopee. These new facilities need workers, often in entry level roles. Most potential employees live 20-plus miles from these employers in denser, transit-served urban neighborhoods. These workers are largely of modest or low income and many cannot afford an automobile. Getting these workers to their jobs is a transportation challenge, and it reflects the complexities of land use, location choices, affordability, and our multimodal transportation system, including transit.

**Transportation and Technology**

Technology has always played a role in transportation modes and systems. Extended ocean travel, inter-continental railroad service, flight, and the modern automobile would not be possible without technological discoveries.

Technology is also a major player in our region’s transportation system. Automobiles today are technology-rich, including anti-collision warning features, hybrid and electric engine options, digital diagnostics, and navigation tools. Transit, both buses and rail, are managed and operated using sophisticated technologies that support safety, efficiency, clean fuel consumption, and routing. Highway technology determines traffic management, updates signage and information, increases safety, and manages high-occupancy toll (HOT or MnPASS) lanes.

Over the last decade, technology has developed new shared mobility options such as application-enabled ridesharing like Lyft and Uber and the Nice Ride network of shared bicycles. Metro Transit has a new application to provide
OVERVIEW

easier use of transit; in the future, you might subscribe to a monthly service that would provide multiple options for how you travel. Perhaps the most anticipated technological change is the arrival of self-driving, or autonomous vehicles. Learn more about this development and its importance to transportation planning in this Overview on page 32 in the section Regional Transportation Challenges and Opportunities.

2040 TRANSPORTATION POLICY PLAN (2020 UPDATE) PRINCIPLES

- Support the needs of the region’s mature highway system, including dedicating significant resources to maintaining and rebuilding the existing system and using preservation projects to rethink major regional corridors
- Manage congestion in an innovative, cost-efficient manner and provide reliable alternatives to travel in congested corridors
- Implement increased transit service and an expanded transitway system; support higher demand for development (housing, shops, jobs) along transit lines and around stations
- Support more opportunities for other travel modes; include bicycle and pedestrian elements in comprehensive transportation and land development plans; provide tools needed to implement them
- Plan for the long-term needs of freight modes such as trucks, barges, and railroads
- Balance the needs of the aviation system with local land use decisions
A Summary of the Regional Transportation System

Our transportation system serves more than 3 million people living in our 2,957-square-mile region, plus the thousands who travel into our region to visit, study, work, play, and shop. All of us who are walking, biking, driving, riding in cars, and taking transit are users of our transportation system. Through the years, system operations improvements have added to the travel choices available – alternatives that diminish or avoid highway congestion. Restoring the aging infrastructure of our aging highway system is another focused, ongoing improvement.

The region consistently ranks high in quality of life factors; yet there are gaps to close in the region. Those with moderate to low incomes and communities of color have historically faced barriers to opportunity – better jobs, more schooling, and home ownership and affordability. Today, the gap in income and education in this region is one of the largest in the country. Equitable access to transportation improves everyone’s chance to participate in a strong economy. We also must work harder to protect communities and the natural environment near busy roadways or major transit investments from disruption and environmental harm.

Here is a summary of our region’s transportation system. This summary is guided by the region’s 2040 Transportation Policy Plan (2020 update), which includes Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties and the developed areas in the southeast portions of Sherburne and Wright counties.
The Regional Highway System

No other part of the region’s transportation system has increased personal mobility more than the regional highway system. Highways support flexible and independent travel for millions of people, making millions of trips, every day.

Today’s highway system developed as the nation pursued good roads essential for commerce, national defense, travel, and communications. Boosted by investments like the Federal Aid Highway Act of 1956, the interstate highway system became the single largest public works project in the nation’s history. The state of Minnesota is responsible for 914 miles of interstate highways, 3,200 miles of U.S. highways, and 7,600 miles of Minnesota state highways. The metropolitan region contains only 12% of Minnesota’s highway system, but metro area highways account for 47% of the annual miles of vehicle travel on this system in Minnesota (MnDOT).

The benefits of these highways have been immense. Commerce, work commutes, recreational travel, and the everyday business of most people’s lives, especially in rural and suburban areas, depend on a good highway system. The highway system is also essential to moving freight. Trucks move nearly 75% of all the region’s freight, accounting for more than 80% of the total monetary value of all freight moved in the region.

The benefits of the region’s highway system also come with social and environmental costs, beyond the construction and related costs of the project itself. These include the initial impacts to local communities during the project construction and the continuing climate change, public health and environmental costs of their use. These costs and impacts can be mitigated through context-sensitive designs and targeted investments along corridors, along with advancement of technology like electric vehicles and strategies that reduce vehicle miles traveled.

HIGHWAYS SEEDED THE SUBURBAN BUILDING BOOM

The planning and construction of the highway system was a major factor in the post-World War II suburban building boom and the growth in automobile ownership and use. Unlike older, urban communities, suburban development design and land use favored auto-dependence rather than transit. Residents were served by local roads linked to regional highways, expanding the area in which jobs were attainable and increasing work commutes. Meanwhile, federal housing policy supported racial segregation, and many Black and African-American residents could not buy homes in the newer suburban communities.

The region’s highway system is well developed and classified into categories based on function. “Principal Arterials” are freeways and other highways with the highest travel speeds and carrying capacity, such as Interstates 35 and 94, and U.S. Highway 10. The A-minor arterials are intended to provide a lower level of mobility than the principal arterials, but provide more access to other roadways and land uses. Examples of A-minor arterials include Minnesota State Highway 51/Snelling Avenue in Ramsey County and Minnesota State Highway 5 in Carver County.
There are 17,700 miles of roads in the region. Principal and A-minor arterial roads make up only 2,700 of those miles (15%) yet they carry 80% of the region’s motor vehicle traffic, including trucks and buses. Counties and cities in the region own and manage the majority of the A-minor system and a smaller part of the principal arterial system. The rest are roads that are local or carry fewer vehicles, but they are still essential to the transportation system. Local roads reflect the commitment to and investment in our transportation system by the region’s counties, cities, and towns.

Future investments in the regional highway system (principal and A-minor arterials) will focus on operating, maintaining, and rebuilding the existing, aging highway infrastructure. Growing parts of the region may require strategic highway capacity investments. Equally important will be increasing safety and security.

The expected increase in population over the next 20 years will also have an impact on congestion in the region. Targeted investments to improve travel times on the region’s highway system will help limit the negative impacts on people’s daily lives and on the economy.

Reducing highway congestion has no easy fix, a range of strategies must be used, including reducing travel demand through improved land use planning, and creating walkable and bikeable communities; supporting and encouraging telecommuting and the use of flexible work hours; and investing in transit and other alternative travel modes. When a roadway investment is necessary, this plan calls for implementing traffic management technologies; identifying lower-cost, high-benefit spot mobility improvements; implementing MnPASS lanes that benefit transit and carpools; and as a final solution strategically increasing capacity.

This transportation plan addresses only the regional highways; local streets are planned by local governments.
WHAT CAUSES HIGHWAY CONGESTION?
Congestion – traffic slowing or stopping on our highways – has several causes:

- Population growth, especially among adults 18-64 who make up most commuters
- Prosperity, which can make automobile ownership possible for more people and increase travel to work
- Most people sharing the same work schedules who then are on the highways at the same times
- Adverse weather, construction, crashes, and other traffic incidents
- Special events attracting great numbers of people, mostly in private vehicles and at the same time

HOW CAN WE MANAGE CONGESTION?

- Use and prepare for innovative technologies on our highway system including congestion pricing, driver information and lane control systems, improved signal timing, and emerging connected and autonomous vehicle technologies
- Support ways to move more people on existing highways in congested corridors through bus-only shoulders, MnPASS lanes, and park-and-ride facilities with frequent transit service, to encourage more people to use transit or share a ride for part of their trip
- Encourage land uses and development patterns that support traveling by means other than driving alone, like walking, biking, or taking transit; leverage the build-out of a transit system to guide future growth to areas where people have options for how they travel
The Regional Transit System

Public transportation, or transit, enhances quality of life, gets people to opportunities, supports prosperity, and improves the economic competitiveness of the region. Residents want transportation choices that include public transit so they can get to work, school, services and amenities, recreation, shopping, and other activities. This is especially true for many living in the region’s more densely populated urban areas, where transit is close by, comes often, and is affordable. In suburban areas, public transit primarily provides an economical, convenient alternative to commuting to work by automobile. For those in rural areas who do not drive, public transit may provide critical connections to jobs and opportunities.

Not all areas of the region can be served by transit equally. It is important to spend our limited transit resources on planning, building, and maintaining transit services that will be needed and used over time. Transit is the most cost effective when it follows a regular route that travels frequently through communities with concentrations of people and destinations. Population density can be the result of urban land development and use (multifamily dwellings, reasonable walks to bus or train routes). It can also be the result of a park-and-ride facility, which creates density when transit riders drive their cars to this single location and take transit for the rest of their trips. Today, young adults and empty-nesters are moving into urban areas in part for the availability of frequent and convenient transit services.

There are currently six types of transit service in the region:

- Regular-route bus service
- Light rail transit (LRT)
- Bus rapid transit (BRT)
- Commuter rail
- Dial-a-ride and shared ride services like Metro Mobility, Transit Link and Southwest Prime
- Public vanpools

The region’s transit providers operate 211 bus routes, 115 local services and 96 express routes. Also in service are two light rail lines (METRO Blue and Green lines), three bus rapid transit lines (METRO Red Line, A Line and C Line), and one commuter rail line (the Northstar Line).
There are six major providers of public transit in the region:

- Metropolitan Council, including Metro Transit and contracted services such as Metro Mobility and Transit Link
- Minnesota Valley Transit Authority, serving eight south metro communities
- SouthWest Transit, serving three west metro communities
- Plymouth Metrolink, serving the City of Plymouth
- Maple Grove Transit, serving the City of Maple Grove
- University of Minnesota, providing bus service within and between campuses in Minneapolis and Saint Paul

Many suburban communities are served primarily by a large system of park-and-ride lots and ramps, with about 34,000 parking spaces, and serving 19,000 users daily.

**BENEFITS OF TRANSIT**

The benefits of public transit go beyond traveling to chosen destinations. Real estate near or along transit stations or corridors have greater value than real estate with no access to transit. Mixed-use development that incorporates transit helps make neighborhoods desirable and valuable in a number of ways, including:

- Giving residents the option of not owning a car and incurring its costs, or using a car less, avoiding fuel and parking costs
- Reducing congestion on the roadway system, which benefits drivers and freight
- Supporting a mix of housing and commercial uses—apartments, condos, retail shops, and services—that builds a neighborhood with ethnic and age diversity
- Fostering economic activity, social interaction, community involvement, and good health through physical activity
- Generating larger financial returns for communities; real estate is not devoted to parking lots and other auto-oriented infrastructure but uses that support community life and generate more revenue
- Reducing driving to decrease regional greenhouse gas emissions and lessen the impacts of climate change

Recent advancements reflect current growth as well as preparation for the future.

- Annually, regional transit operators provide around 90 to 95 million rides.
- An extension is planned for the METRO Green Line (currently the light rail route between downtown Saint Paul and Minneapolis) routed from downtown Minneapolis through St. Louis Park, Hopkins, Minnetonka, and Eden Prairie. Construction began in 2019.
- Plans are being made for the METRO Blue line (currently running from downtown Minneapolis to the Mall of America) to be extended through north Minneapolis, Golden Valley, Robbinsdale, Crystal, and Brooklyn Park.
- The METRO C Line bus rapid transit service opened in June of 2019 after the launch of the A Line, which opened in 2016. The C Line connects the Brooklyn Center Transit Center to downtown Minneapolis. The A Line connects the METRO Blue and Green lines and several bus routes with the busy Snelling Avenue corridor. This type of BRT (called
Arterial BRT, because it operates on existing main thoroughfares through communities) provides a faster trip, frequent service, and specialized vehicles with train-like features. Additional Arterial BRT routes are being planned.

- The region is also planning for two dedicated bus rapid transit routes and a modern streetcar route. The Gold Line will connect Saint Paul, Oakdale and Woodbury, the Rush Line will connect downtown Saint Paul and White Bear Lake, and the Riverview Modern Streetcar will connect downtown Saint Paul to the airport along West 7th Street.

**Strategies to Encourage Alternatives to Commuting by Car**

Transportation Management Organizations (such as I-494 Commuter Services, an outreach program of the I-494 Corridor Commission) and local governments within the region partner with the Metropolitan Council to encourage drivers to choose alternatives to driving alone to and from work. Below is some background about the work they do.

**Managing Travel Demand**

The Metropolitan Council partners with cities and Transportation Management Organizations to:

- Reduce travel during peak periods and in congested areas
- Promote alternatives to driving alone such as carpooling, transit, and bicycling
- Promote flexible work schedules and telecommuting
- Work with local governments to link their strategies with supportive land use policies
- Market transit services like the Northstar Line, METRO Green Line, A Line, C Line, and Red Line
- Encourage the use of amenities like park-and-ride facilities, Nice Ride bicycles, and on- and off-street bicycle facilities

**WHAT ARE TRANSPORTATION MANAGEMENT ORGANIZATIONS?**

- Public/private partnerships that share highly congested corridors, such as the I-494 corridor in the southern metro area
- Include employers, building owners, businesses, and local governments
- Work together on strategies, programs, public education, and information to promote alternatives to driving alone during peak travel times
- Support carpooling, transit, and telecommuting
Regional Bicycle and Pedestrian Infrastructure

Walking and bicycling are essential parts of the regional transportation system. People walking and bicycling can reduce the number of vehicles on the roads and vehicle-related air emissions. Bikers and walkers incorporate exercise into their day, and often take transit as part of their trips. On a household level, people who walk or bike reduce their own transportation costs; at a national level they reduce our dependence on non-renewable energy sources. And for some, walking and biking may be their only transportation options.

Walking and bicycling trips tend to be relatively short, averaging about one-quarter to one-half mile for walking and between one and three miles for bicycling. Local governments lead the development of bicycle and pedestrian systems. The Metropolitan Council plans for regional bicycle networks that connect through several jurisdictions, and it helps identify locations to improve crossings of regional barriers to bicycling and walking.

The Regional Bike System

The region is fortunate to have significant bicycling facilities, including many miles of on-street bike lanes and robust networks of off-road trails. Twin Cities residents continue to support these improvements, and significant investments in bikeways have been made by cities and counties, the region, and the state and federal government.

Bicycling and walking have increased substantially in Minneapolis, its surrounding suburbs, and Saint Paul over the last decade, partially as a result of efforts through a federal non-motorized transportation pilot project. In addition, the Council has been improving the inventory of bicycling amenities. Current trends in bicycling and bicycle planning include the following:

- In the interest of providing safer bicycle infrastructure that supports cyclists of all ages and abilities, there is a growing need to develop bikeways separate from vehicle traffic. There is a trend among the region’s cities to develop protected and separated bikeway networks for this purpose.

- The Metropolitan Council conducted a Regional Bicycle Barriers Study to identify physical barriers (such as freeways, rail lines, and rivers and streams) to daily bicycle trips. The study identifies potential crossing locations for improvement, important information for local and state programs investing in the region’s bicycle system.
• Electric battery-assist bikes, or e-bikes, are an emerging trend. Mobility for many cyclists will be greatly improved as e-bikes enable users to climb hills easily and ride longer distances, perhaps accommodating increased numbers of e-bikes will be important in future planning efforts.

Pedestrian Infrastructure

Pedestrian infrastructure – sidewalks, trails, lighting, and intersection design – is key to making places feel easily reached, inviting, and safe to people of all ages and abilities. For people who do not drive, walking or traveling by wheelchair can be essential to meeting daily needs, and walking can be an important part of active living. Unfortunately, opportunities for walking, such as going to the store or to the nearest transit station, can be thwarted by barriers, such as a lack of sidewalks, poor snow and ice removal, and wide, busy roadway intersections.

Most communities that were developed prior to 1945 included sidewalks as a component of all the streets. But many suburban communities developed after World War II were built for cars and had fewer or no sidewalks. Since the 1990s, many main roadways in the region added safe walkways.

But there are still some gaps and design-related elements to consider for pedestrian infrastructure in the region. Below are important priorities in planning for pedestrian traffic and safe and accessible walkways:

• We are all pedestrians. Depending on who we are and where we live, it may be challenging to walk safely in our communities. For people with disabilities, children, older adults, and people living in lower income communities, it can be more difficult to walk where they need to go. It is a goal that our transportation networks work safely for all of us.

• Compared to the percentage of trips made by walking, pedestrians are overrepresented in the region’s deaths from traffic crashes, reinforcing the need for improved pedestrian safety on our roadways.

• Thirty years after enactment of the Americans with Disabilities Act, challenges remain for people with disabilities. Communities must work to protect the civil rights of people with disabilities, including transportation.
The Regional Freight System

Today nearly 75% of intercity freight is moved by trucks on highways. The remaining 25% is moved by air, water, rail and pipeline. Much of the region’s freight infrastructure (such as warehouse distribution centers, rail lines and terminals for multiple modes) is owned by the private sector. Public sector freight-related infrastructure includes highways, locks and dams on the Mississippi River system, some barge terminals, and airports.

There are two river ports in the Twin Cities metro region: the Saint Paul Port on the Mississippi River and the Port of Savage on the Minnesota River. Freight commodities can be hauled by barge as far as 1,800 miles downriver to the Port of New Orleans where it is loaded onto ocean-going ships for export to global markets. The channels, dams, and locks on navigable rivers are maintained by the U.S. Army Corps of Engineers.

Four Class I private freight railroads operate more than 500 miles of track in the metropolitan area, linking the region with national markets and carrying a large amount of cross-country freight. Three Class III (short-line) railroads provide local freight services on about 160 miles of track in the region.

High-value, low-weight, and time-sensitive goods are shipped long distances via the air freight system. The region’s high-tech and biomedical companies are major air freight customers. Minneapolis-Saint Paul International Airport (MSP) handles air freight for the Twin Cities metropolitan area, most of Minnesota, and adjacent parts of Wisconsin and the Dakotas via air freight providers such as FedEx, United Parcel Service, and commercial airlines. Goods shipped on commercial passenger aircraft represents less than 20% on average of the overall air freight volume shipped via MSP; more than 80% is shipped via air freight carriers.
The Regional Airport System

Air travel, for people and goods, is an integral part of the region’s transportation system; a nearby airport with many flights to many destinations improves our region’s quality of life and economic competitiveness. The region’s major airport, Minneapolis - Saint Paul International Airport (MSP), has four runways and two terminals on 3,400 acres surrounded by Bloomington, Eagan, Mendota Heights, Minneapolis, Richfield, and Saint Paul. MSP, along with six smaller regional airports, is owned and operated by the Metropolitan Airports Commission (MAC), a public corporation established by state law in 1943 to provide coordinated aviation services throughout the Twin Cities metropolitan area. MAC is primarily funded through rents and fees paid by airport users.

In 2016, MSP ranked 16th nationally in volume with 37.5 million passengers and 413,000 takeoffs and landings. It brings more than 5 million visitors to the region every year, including 500,000 international visitors, who spend approximately $2.5 billion annually in the region. An estimated 207,000 metric tons of cargo moved through MSP in 2016. MSP is served by the METRO Blue line.

The smaller, or reliever, airports in the region include Airlake-Lakeville, Anoka County-Blaine, Crystal, Flying Cloud-Eden Prairie, Lake Elmo, and St. Paul Downtown, owned by the MAC, and South St. Paul and Forest Lake, both city-owned. These airports relieve congestion at MSP and provide improved aviation access to the region. Regional airports generate $1.4 billion in economic activity annually for the Twin Cities. Airport users at these smaller airports include air taxis, business aviation, flight training, recreational aviation, and military aviation.
Passenger Travel Beyond the Region (bus and train)

Each mode of transportation within the region is best used for trips of a certain distance range, and that is true of travel outside our region. Traveling city-to-city or town-to-town is most often by automobile, though Amtrak passenger train service and a number of intercity bus lines serve passengers who choose not to drive or fly.

Minnesota Department of Transportation (MnDOT) is currently studying potential high-speed rail services linking the Twin Cities with Duluth and Chicago as well as the potential for an additional daily Amtrak train at conventional speeds to and from Chicago. Recently, intercity bus service, like Jefferson Lines or Greyhound, have added innovations to attract passengers such as Wi-Fi and competitive pricing. The Metropolitan Council has a minimal role in planning intercity passenger rail or bus service, though significant regional facilities, such as the Union Depot in Saint Paul, provide access for this service and local transit service in both Minneapolis and Saint Paul. MnDOT coordinates with operators of inter-city services and provides some subsidies to support service in Greater Minnesota.
Regional Transportation Challenges and Opportunities

The quality of our daily lives is greatly influenced by our region’s transportation system. Is transportation available when we need it, taking us where we need to go, at a cost we can afford? What we need and how we use transportation changes over time. Those changes influence the plans and recommendations made by the Metropolitan Council regarding the future of our region’s transportation system, found in the Council’s 2040 Transportation Policy Plan updated for 2020. The complete plan can be found at www.metrocouncil.org/tpp.

Elements that influence changes in our transportation system include:

- The region’s growth in population and jobs
- The land use and layout of our region, and how land use evolves
- Where we live, our incomes, and the design and stability of our neighborhoods
- The locations of our many destinations, including work, school, and family
- The types, or modes, of transportation available to us, and what modes we use: personal vehicle, bus, carpool, bike, walk, train, or a mix of different modes
- How much of our incomes we can afford to spend on transportation costs
- Transportation innovations and changing technologies
- The availability of public funds for our transportation system, including highways and transit (i.e., buses, light rail)

Our transportation system is extensive and complex, affecting every resident, business, government jurisdiction, recreational venue, educational institution, and community organization in our region. Its challenges and opportunities are numerous; here are notable challenges and opportunities influencing the planning and development of our transportation system:

1. **Our highway system is well developed but is aging and will require major reconstruction. Our transitway system is newer and still being developed. These realities are reflected in plans for the future of highways and transit, and how each uses the funding available.**
The Highway System

Preserving the existing highway system is a top priority for highway funding and will consume the majority of available revenue over the next decade and beyond. Most of the region’s highways are 40 to 60 years old, and approaching the end of their original useful lives. In 2014, it was estimated that more than 30 million vehicle miles were driven on the system daily, including trucks moving 75% of all freight in and out of the region. Ongoing maintenance is mandatory to preserve the highway system and meet state and federal performance standards. Highway sections at the end of their lifecycle have deteriorating pavement and bridges, and require major rehabilitation or reconstruction.

HIGHWAY RECONSTRUCTION CAN BENEFIT MULTIPLE MODES

Highway reconstruction is an opportunity to identify where improvements can be made, folding other related improvements into the scheduled road work. These may include safety, mobility, freight, bicycle, and pedestrian needs. Integrating these other needs with projects to preserve roadways minimizes cost, reduces inconvenience to travelers by coordinating separate needs into one construction project, and addresses multiple policy objectives. For example, adding MnPASS lanes north of downtown Saint Paul along with improvements to the roadway helped to also improve travel times. In addition, prominent corridors such as I-35W north of Minnesota Highway 36 and I-94 between the two downtowns could be significantly reworked, as their pavement and bridges are reconstructed and replaced.

Combined improvements on highway preservation projects
The Transit System

The region's transitway system is still growing, primarily by adding new transitways. Metro Transit (an operating division of the Metropolitan Council) provides the majority of transit service in the region, augmented by four suburban transit providers. Plans for transit include both new and modified transit services to the region. The region is investing in improved customer experiences with services like light rail, commuter rail, and bus rapid transit. These new services are attracting new transit riders to the system with every new line that opens.

The transit system will need funds for operations and maintenance but also for new development. When we make investments to improve transit service or facilities, like adding METRO Green Line and developing A Line, ridership has grown. The developments since the first light rail line opened in 2004 are a case in point: the opening of two light rail lines; ever-evolving bus service; technologies from alternative fuel buses to online route mapping; bus rapid transit lines designed for improved speed, convenience, and comfort; routing that better links buses and rail; and the launching of commuter rail. The next two decades include plans for extending the METRO Blue and Green light rail lines, and adding several rapid bus routes.

Funding for highways and transit are separate and often inflexible. The majority of state and federal transportation dollars are dedicated by the state constitution, or state and federal law for a specific mode or purpose, like the state trunk highway system or the regional transit system. These funds cannot be shifted from one mode to another. One of the region’s flexible funding sources, however, is the federal Regional Solicitation funds distributed by Met Council and the Transportation Advisory Board. These funds account for only about 3% of the total transportation spending within the region.

2. Travel patterns are changing. Who we are, how we live, what we need, and what we want all affect the choices we make, including how we use transportation.

As we change, our travel patterns change, too.

This is clearly seen in how different age groups have different transportation wants and needs. Of particular interest to transportation planning are Gen Z (otherwise known as iGen or Centennials, born 2001 to 2015); Millennials (or Gen Y, born 1981 to 2000); Generation X (born 1966 to 1980); and Baby Boomers (born 1946 to 1965). Here are some notable challenges and opportunities brought about by the differing characteristics of these generations.

IMPACTS OF URBAN HIGHWAY CONSTRUCTION

Urban highway construction 40 to 60 years ago disrupted many communities of color and others who had little voice in government decision-making. Many highways in Minneapolis and Saint Paul destroyed neighborhoods, splitting and weakening established communities. For example, I-94’s construction in the 1960s splintered Rondo, a thriving, historically African-American Saint Paul neighborhood. Today, these highways still impact air quality, health, accessibility and noise in neighboring communities. Planning for highway reconstruction is an opportunity to bring residents into the process, learn more about their needs, concerns and recommendations, and focus on improvements that will help reunite communities.
In both the U.S. and in Minnesota, Millennials now outnumber Baby Boomers in the region by about 100,000 people. The two groups are projected to have the largest impact on transportation plans and trends over the next several decades. Millennials, generally in their 20s and 30s, have lower rates of vehicle ownership, auto usage, and driver licensure than previous groups, and they use transit, walk, and bike more than others. However, we don’t know if or how these patterns will change as Millennials start families and enter their peak travel years, between the ages of 30 and 60. Baby Boomers will have a sizeable impact on travel patterns as they retire, initially traveling more for their activities during the day, and as they age and are no longer able to drive, potentially creating a notable increase in demand for services such as Metro Mobility, and perhaps autonomous vehicles as that trend emerges.

These travel patterns correlate with an increase in multifamily housing. Multifamily housing has been the majority of new home construction since 2012, often located in walkable neighborhoods served by transit. For both Millennials and Baby Boomers who want to live closer to work, entertainment, transit, and amenities, multifamily housing has been attractive.

Over the prior 50 years, there was a continuous, dramatic increase in vehicle miles traveled due to growing suburbs, more women in the workforce, and increased incomes that allowed auto ownership to expand to almost one car per driver. This growth rate is not expected to be repeated, in part because of the changing ways people today approach travel – living closer to work, biking, walking, or taking transit, and working from home. Nevertheless, population growth is likely to keep vehicle miles traveled at a significant level. Another notable change in travel patterns relates to transit ridership as transit options have expanded – including light rail, bus rapid transit, and additional commuter services. As the region continues to expand transitway and regular route transit options, there will be other emerging trends and issues to address.
3. Highway congestion is a reality of a growing region. Addressing congestion using a variety of strategies and tools is a priority for the region.

While each person may be traveling fewer miles each day, due to the changing travel patterns just described, the increasing population of the region will still lead to an increase in total travel over the next 20 years. Increasing levels of congestion are directly connected to our region’s population growth and prosperity. For example, increased highway use reflects the region’s population growth of 318,000 people, and the addition of 260,000 jobs, since 2010. And while commuter trips represent only 25% of total trips taken, these trips are often longer and likely to occur during peak travel times, having a larger impact on the highway system.

The reality of highway congestion surfaces many challenges and opportunities. Building more roads does not solve congestion. The region must use a variety of tools and strategies, including travel demand management strategies like teleworking; land uses that encourage the use of biking, walking and transit; and technology to manage congestion and maximize efficiency and safety. Congestion must be managed to maximize efficiency and safety. Every mode of transportation – or what’s called a multimodal system – must be part of the plans and action to manage congestion. Congestion management and travel demand are priorities and significant dollars are being invested for this purpose. These investments include:

• Making investments in technologies that improve travel in and through congested corridors;
• Offering more reliable travel options along congested corridors, such as transit options (buses, light rail, commuter rail) and high-occupancy toll (HOT) lanes (i.e., MnPASS);
• Improving congested locations with lower-cost, high-benefit fixes to stretch our limited transportation dollars further;
• Encouraging land use and development that offers the community easy access to multimodal transportation options, including transit;
• Encouraging travel outside traditional commuting times, through flexible work schedules or work-at-home options; and
• Supporting the efficient movement of freight.
4. Technology will continue to influence travel in the region.

Technology is interwoven into nearly every aspect of modern life, and transportation is no different.

One of the biggest technology influences is the prevalence of the smart phone. So many transportation-related information or sharing services are accessed through phone applications – information about traffic, finding the optimal route across town, tracking when the next bus is coming, reserving a taxi or shared-ride service, or getting a Nice Ride bike. The convenience of this consumer-based technology is changing travel patterns, and will continue to do so into the future.

On our highway system, traffic flow and improved safety is supported by many technologies, including real-time traffic and incident monitoring, electronic message signs, signal-overrides for emergency vehicles, and managing vehicle volumes in high-occupancy toll lanes (HOT or MnPASS). Technology presents many challenges and opportunities for our transportation system.

Vehicles have been revolutionized by technology. In Minnesota there are more than 5,000 plug-in hybrid electric vehicles and more than 7,000 battery electric vehicles on the road already. Technological advancements are evident in newer vehicles, as well as on the roads they travel. Technology has had a notable impact on moving freight as automated distribution of goods and online, delivery-based shopping increases. The Metropolitan Council studies the outcomes of these changes and monitors trends so it can contribute to and shape the conversation as technology and transportation planning evolves.

Autonomous, or driverless, vehicles could have the most significant impact on travel in our region over the next several decades. Auto industry leaders are dedicating sizeable resources to autonomous vehicle research and testing, and several predict autonomous models will be street-ready by as soon as 2021. Those dates may be aggressive, but there is great likelihood the industry will be focusing on this reality over the next 10-15 years. Elements of driverless vehicles are already offered in current models by several manufacturers, including collision warning, lane departure warning, and blind spot monitoring.

The cost per driverless vehicle could be initially prohibitive. As the technology becomes more common, it is expected that costs will lower. Interest by consumers will be based on several factors, including the promise of increased safety, improved mobility for those who can’t drive, more relaxed trips, and an increase in car-sharing.

Autonomous vehicles, emerging technology and the infrastructure that supports them
are important investments that further the region’s goals and outcomes. Points to consider include:

• There will be an extended period of transition with both driverless and driver-controlled vehicles sharing the road.

• Funding will be needed for updated traffic management systems that accommodate autonomous vehicles.

• Autonomous vehicles could bring a shift in travel patterns, employment, and purchasing. Will commercial vehicles become driverless? Predictions are the number of vehicular crashes will drop, as 95% are associated with driver error. If so, how will this affect the automobile service industry or the insurance industry? Will autonomous vehicles affect the taxi industry and its drivers?

• Autonomous vehicles need less lane space because of their anti-collision technologies. Will highways accommodate more vehicles in less space? Will single occupant vehicles be parked in pay lots or ramps, or sent home, to return later for occupant pickup (having an impact on existing structures and land use and creating the potential for more congestion as empty autos circulate)?

• New opportunities for mobility could be made available to people with limited transportation options including children, people who have a disability, and older adults.

• Autonomous vehicles could change typical car ownership models.

• Land use patterns may be affected, as people potentially have the ability to live farther from work and have longer commutes.

• There is general agreement that the majority of autonomous vehicles will be powered through electric batteries. How will cities adapt to changing land uses as there is less demand for gas and service stations and greater demand for electric charging stations?

• Average earners, as well as those struggling with poverty, could be priced out of this technology at first, making transit offerings as important as ever to help decrease disparities in opportunity.

• Autonomous vehicles could change how transportation infrastructure will be financed as traditional revenue sources from fuel, motor vehicles, parking, and fines could decrease.

• Programming in autonomous vehicles will need to automatically detect and yield to people crossing or riding in the roadway. Additionally, designing the public street space to accommodate new technology must also consider goals of safety, equity, and healthy communities.

The Metropolitan Council, along with its state and federal partners, is preparing for the arrival of autonomous vehicles. It is conducting ongoing studies of the potential short term and long-term effects of autonomous vehicles on our region and its transportation system.
OVERVIEW

5. Our transportation system is essential to advancing equity, sustainability, and prosperity in our region.

Equity

**Thrive MSP 2040** defines equity as residents of all races, ethnicities, incomes, and abilities having the opportunity to reach their full potential—success, economic prosperity, and a good quality of life.

In this transportation plan, equity is highlighted in ways the region provides access to jobs, school, and other community amenities. Strategies include using equity as a criterion for prioritizing transportation funding, as well as making decisions about transportation investment that encourage developing healthy and livable communities. The Metropolitan Council’s focus on equity includes extensive public engagement and input into its planning and decisions. Equity calls for focusing on the needs of those who are most impacted by decisions, like communities of color and those who have low incomes. Engagement within these communities should be an ongoing conversation throughout planning processes.

Transportation policy, including the level of investment in transportation and the transportation system that results, affects how equitably our region’s residents have access to opportunities. Challenges and opportunities include:

- Nationally, the region has among the largest socio-economic disparities in education, employment, income, and homeownership between white residents and residents of color—and income disparity continues to rise. Flexible, affordable transportation options are important elements in delivering equity and diminishing these disparities.

- Poverty is often perceived as an urban problem, but poverty in suburban and rural areas has increased substantially. For many people, owning a vehicle can be cost prohibitive, yet transit options decline beyond the boundaries of Minneapolis and Saint Paul because suburban land use patterns are difficult to serve cost-effectively with regular-route transit service. This results in low-income suburban residents experiencing difficulty accessing education and jobs.

- By 2040, two in every five Twin Cities residents will be people of color, and many more residents will be elderly—two groups requiring transportation policies, actions, and funding that deliver equitable solutions.

Sustainability

Our transportation system, and how we use transportation, significantly affects the well-being of our natural environment. Challenges and opportunities include:

- Changing our transportation behaviors, like reducing single-occupant vehicle trips, increasing transit use, choosing housing in communities with amenities close by, and encouraging ride-sharing are critical to equity and can also have an impact on sustainability and climate change.

- People living in neighborhoods adjoining major highways have higher-than-
average exposure to transportation-generated air pollution. Many experience adverse health consequences, such as asthma, at greater rates than the general population. Housing costs are often lower in urban, highway-bounded communities; so many people in these neighborhoods have low or modest incomes, resulting in these health disparities disproportionately affecting poor people.

- Greenhouse gas emissions from on-road vehicles cause nearly a quarter of air pollution emissions, although they are decreasing. Emission levels will continue to improve as vehicle technology, including hybrid or electric vehicles, progresses. Improving vehicle technology has been, and is likely to continue to be, the most effective way to reduce emissions.

- As electric vehicles continue to grow in popularity and share of the overall market, communities will need to consider the implications of more electric vehicles – whether to support public plug-in stations, and other local decisions, including investing in electric vehicles for their fleets. There are currently more than 200 public charging stations in Minnesota and estimates suggest many more will be necessary over the term of this plan. Many cities are already leading the way on establishing guidelines and ordinances to be ready for electric vehicles. From a regional perspective, the Council will work with state and local agencies, and other stakeholders to understand what is needed to realize the full potential of the benefits that electric vehicles promise.

- Emerging battery-electric bus technology may allow the transit fleet to increase its energy efficiency and sustainability. In 2019, Metro Transit put eight battery-electric articulated buses into service. Plans through 2025 are to continue increasing battery-electric buses as a part of the fleet. In addition to reducing climate impacts, electric buses have no tailpipe emissions and therefore reduce local pollution in the neighborhoods they serve. The Penn Ave corridor is one example, carrying passengers through North Minneapolis on the METRO C Line. Like many new technologies, there are operational challenges that continue to evolve. They range from charger technology in the garage and in the field, to understanding operating range and scheduling the routes to allow for sufficient layover charging time. Initial experience with the all-electric fleet has shown some indication that these technological challenges will slow the full transition to this type of vehicle. The Met Council’s hope is that the region’s transit fleet will eventually benefit from future market development.

**Prosperity**

The availability of affordable, flexible transportation has a sizeable impact on the region as a whole, and on individuals who need transportation to get to jobs or school.

- An estimated one-third of projected new job growth will be located on transit routes. However, two-thirds will not be located along established transit routes. Manufacturing or warehouse facilities with available jobs often are located in the region’s semi-rural or suburban edges, many miles from urban core neighborhoods where many of the people qualified for and looking for jobs live.

- The result is called “spatial mismatch” – the greatest concentration of unemployed workers lack adequate means to travel (whether by transit or car) to the richest concentrations of job vacancies. This disconnect has sizeable ramifications for those seeking and
needing employment, and companies who are struggling to attract employees. This is a crucial opportunity for public-private collaboration and future planning.

• Transitway investments will improve access to jobs. Plans include several bus rapid transit lines, and the extension of the METRO Blue Line northwest and the METRO Green Line southwest.

A reliable and efficient regional transportation system is high on the list of needs and requirements for employers and businesses moving commercial goods. The transportation system can also play a role in attracting and retaining a talented workforce. As employment continues to grow outside the central cities, the need for greater transportation choices will also grow.

People throughout the region are advocating for efficient, reliable options on the highway system, as well as expanded regional transit, bicycle, and pedestrian systems.

Metropolitan Council’s Transportation Policy Plan, on behalf of the region, works to solve challenges and plan for future transportation system changes. More information about funding and next steps is found in the following chapters.
Work Program Items
The Metropolitan Council creates a Work Program that includes studies and planning work to address specific issues and emerging trends in advance of the next update to the Transportation Policy Plan. The full Work Program is available in Chapter 14 but a summary of a few key studies is below.

Financial Impact of COVID-19
This update does not take into consideration the COVID-19 (coronavirus) outbreak and its impacts on transportation revenue. It is already clear that many of the most important revenue sources for transportation will see, at a minimum, severe near-term shortfalls from those that have been anticipated in this plan. As travel has greatly decreased, so have federal and state gas tax revenues and transit fares. As auto sales slow, so does the revenue from Minnesota’s Motor Vehicle Sales Tax. This analysis of the short- and long-term financial impact of COVID-19 on transportation will consider relevant data and various projections of transportation revenues, and potential program level impacts to construction and operation of the highway and transit systems. This work will be done in cooperation with MnDOT and the region’s transit providers. This work will support an amendment to this plan or the next regular replacement of it.

Travel Behavior Impacts of COVID-19
In response to the COVID-19 (coronavirus) outbreak, the region is following state, national and worldwide guidance on creating social distance between people by asking them to stay home. This action has had, and will continue to have, an influence on travel behavior. During, and in the aftermath of the outbreak, the Met Council will use available data sources, including Travel Behavior Inventory household survey data, roadway traffic counts, and passive origin-destination travel data to study the short- and long-term effects of COVID-19. During the outbreak, travel has gone down substantially with school and workplace closures reducing the number of people commuting. In addition, people are taking fewer non-essential retail, social, and cultural trips. This has had significant impacts on transit ridership, highway congestion, and air pollution. At this time, it is unknown how and to what extent long-term travel behavior will be affected, and whether or not there will be permanent increases in telecommuting and on-line commerce. The Met Council will study and monitor these long-term effects on all modes of passenger transportation and on freight moving over the region’s highways, for possible application in future travel forecasts.

Aviation Impacts of COVID-19
In response to the COVID-19 (coronavirus) outbreak, the region is following state, national and worldwide guidance on creating social distance between people by asking them to stay home. This action has had, and will continue to have, an influence on air travel. The Met Council will assess the impact of the outbreak on the regional aviation system, including travel to and from the airport, and airline passenger demand and capacity. The outbreak also will have at minimum a short-term impact on business travel, and the study will analyze the impacts that will have on the regional aviation system. This outbreak has had significant impacts on all aspects of the aviation system, including airport and airline revenues, capital improvement projects, airport operations and even transit ridership. At this time, it is unknown how and to what extent long-term travel behavior will be affected, and whether or not there will be permanent increases in telecommuting.
and on-line commerce. The Met Council will study and monitor these long-term effects on the aviation system for passenger transportation and the movement of air freight in and out of the region.

**Equity Evaluation of Regional Transportation Investment**

In 2014, the Met Council’s *Choice, Place and Opportunity: An Equity Assessment of the Twin Cities Region* analyzed the region and its investments to understand patterns of need and opportunities across race and income. This report highlighted the wide disparities that exist across an array of regional outcomes between our region’s black, brown and indigenous populations and the white population. As part of the Council’s commitment to continuing to identify and reduce these disparities, we will initiate a Regional Transportation Investment Equity Evaluation. This evaluation will engage the Council, Transportation Advisory Board and regional stakeholders in an analysis of our region’s transportation funding, planning and investment decision-making processes; apply an equity lens to identify and evaluate systemic issues that may be leading to inequitable outcomes; and provide recommendations and strategies for making changes. The study will result in specific recommendations and actions for improving equity in the regional transportation funding, planning and programming processes, that will be prioritized and identified for implementation.

**Electric Vehicles Planning Study**

As metropolitan regions begin to shift to connected and autonomous vehicles and implement shared mobility options, there is a general consensus that both public and private vehicle fleets will become electrified. Electric vehicles in fact widely exist on the market. Although few in numbers, widespread use may proceed what is often thought of as a connected and autonomous future. Fleet electrification can have many positive environmental benefits but may also require substantial changes in the regional electric grid and where and how vehicles are charged. This study on vehicle electrification is to plan a network of charging stations to support and encourage electric vehicle (EV) purchase and use in the Twin Cities. This study would summarize the role EVs can play in local climate mitigation, the hurdles to widespread EV adoption, current and planned energy production capacity and greenhouse gas mix, the capital and operating costs of EVs as compared to internal combustion engine vehicles and, national and local best practices and resources.

**Connected and Autonomous Vehicles**

The advent of more connected vehicles (with Internet access and a local area network), the rapid development of autonomous vehicles, and the evolution of new transportation ownership models will have profound impacts on the region’s transportation use, economics, and infrastructure. The Metropolitan Council is well positioned to convene regional stakeholders to formulate policy responses to technology change and to study potential impacts on all transportation modes and systems.

Addressing the many issues related to connected and autonomous vehicles – including legislation, regulation, policy, and planning tools – will require collaboration among state, regional, local, and corporate stakeholders. The Metropolitan Council and MnDOT will facilitate regional collaboration among all transportation stakeholders regarding connected and autonomous vehicle technology, deployment, policy, and planning. The collaboration may take the form of a new committee, a set of workshops, and dedication of staff...
resources.

Council staff will continue to participate in national conversations regarding connected and autonomous vehicles. As local experts on planning efforts, they will integrate work being done by the U.S. Department of Transportation, the Association of Metropolitan Planning Organizations, the Transportation Research Board, and other researchers, peer regions, and states.

The field of vehicle automation continues to evolve rapidly. It is expected that any specific workplan will become out-of-date rapidly, and this item in particular will be revisited and potentially revised annually.

**Regional Travel Demand Management**

The region has a goal to increase the number and share of trips taken by carpool, transit, bicycling and walking, as well as reducing transportation-related air emissions. While there are a variety of strategies to increase the availability of these options, much has changed since the region’s 2010 travel demand management study. This includes shared mobility options and mobility as a service, rapid technology changes, expansion of infrastructure like regional transitways, MnPASS, and regional bikeways, and expanded interest in remote work resulting from the COVID-19 outbreak. This study will research the most up to date strategies in travel demand management and evaluate their potential implementation in the region. It will also provide an updated set of strategies to encourage these options and promote reduction in single-occupant vehicle trips. Because travel demand management is best achieved as a regional strategy with many local stakeholders partnering together, the study will be a collaboration between state, regional and local governments, as well as businesses, property owners, and non-profits.
Twin Cities Region Transportation Goals, Objectives, Strategies

This 2040 Transportation Policy Plan (2020 update) and our transportation system itself help fulfill the vision of the region’s long-term plan, Thrive MSP 2040. Thrive MSP 2040 reflects our concerns and aspirations, anticipates future needs in the region, and addresses our responsibility to future generations.

The Metropolitan Council – with input from businesses, the public, partner agencies, and local elected officials – has identified six broad goals for the regional transportation system, and a framework for how to achieve them. Consistent with federal requirements, the Council is also developing performance measures and targets to evaluate how effectively these goals have been achieved. Here you will find these six transportation goals, their corresponding objectives, and a summary of the strategies that will be used to achieve them.

Thrive MSP 2040 includes five general outcomes for a thriving region: stewardship, prosperity, equity, livability, and sustainability. You will see these outcomes noted with each of the transportation goals.

Performance-related outcomes are also discussed later in this Overview on page 79.

Definitions

Goals are broad statements of aspiration that describe a desired future for the region’s transportation system.

Objectives represent achievable outcomes that together help to realize a goal within the timeframe of the plan.

Strategies identify how objectives will be met through specific actions, including who is responsible. In this Overview, strategies will be summarized for each section. For full detailed strategies, see Chapter 2.

Performance measures are things that can be measured to determine if a strategy is working. In this Overview, performance measures for each goal are listed at the end. For a full detailed discussion of performance outcomes, see Chapter 13.
GOAL: TRANSPORTATION SYSTEM STEWARDSHIP (TAKING CARE OF WHAT WE HAVE)

Sustainable investments in the transportation system are protected by strategically preserving, maintaining, and operating system assets.

Objectives:

A. Efficiently preserve and maintain the regional transportation system in a state of good repair.

B. Operate the regional transportation system to efficiently and cost-effectively connect people and freight to destinations.

STRATEGIES SUMMARIZED:

- The transportation system is extensive and represents a significant investment over multiple generations. Most resources in this plan will be dedicated to operating, maintaining, and rebuilding what already exists.

- To maximize investments, this plan supports making the system more efficient and effective and providing for the best user experience the region can afford.

- The region needs to focus on investments that have the greatest benefit for all users of the transportation system: residents, businesses, and people of all ages, abilities, and backgrounds.

The public has invested heavily in its transportation system. Its preservation, maintenance, and operation are important to protect this investment for generations to come.

A significant portion of funding is spent every year for maintenance, operation, repair, and replacement of the existing system. This includes major infrastructure such as pavement, bridges, the bus and rail fleet, park-and-ride facilities, transit stations, stops, and shelters. Climate-related severe weather events, with more extremes and overall warmer winters, will continue to have impacts on regional transportation infrastructure. Continued and enhanced system maintenance, repair, and preservation will increase the resiliency of regional transportation infrastructure.

Maintenance includes repairing buses and light rail cars, mowing and maintaining landscaping, clearing snow, ice, and debris from roadways, and building and maintaining transit facilities, sidewalks, and trails. Preservation includes the repair or replacement of pavement, bridges, and infrastructure to support their safe and efficient use.
Operations includes MnDOT’s Freeway Incident Response Safety Team that helps people who are stranded on the roadway; traffic signal operations; and operation of the regional traffic management center (including the variable message signs and advisory speeds). Transit operations include the day-to-day service of buses, light rail, commuter rail, Metro Mobility, and Transit Link dial-a-ride service.

An important part of stewardship is getting the most out of the investments made in the transportation system. During maintenance and preservation projects, there are often opportunities to integrate other improvements at a lower cost. These improvements can lead to better user experiences – for example, safer roads, less congestion, or better sidewalk connections. Initial capital improvements can also create efficiencies in long-term operations and maintenance. For example, investing in automated card-swipe fare technology for transit produces cost savings over the long-term by speeding up service and creating a better customer experience that attracts more riders.

System stewardship includes assessing the performance of the system and the level of satisfaction that its users are experiencing, and making adjustments as necessary to continually improve performance and service.

**Measuring Performance**

Performance measures that will be used to measure successful stewardship of the transportation system include:

- Roadway pavement conditions
- Bridge conditions
- Condition of transit infrastructure (state of good repair)

*Related Thrive MSP 2040 Outcomes: Stewardship, Prosperity*
OVERVIEW

GOAL: SAFETY AND SECURITY

The regional transportation system is safe and secure for all users.

Objectives:

A. Reduce fatal and serious injury crashes and improve safety and security for all modes of passenger travel and freight transport.

B. Reduce the transportation system’s vulnerability to natural and human-caused incidents and threats, including climate change and terrorism.

STRATEGIES SUMMARIZED:

- Safety and security are at the heart of providing a comfortable, trustworthy system and will be a focus in all areas of transportation investments.
- Safety and security include identifying and addressing existing safety and security concerns and building a transportation system that avoids future problems.

Increasing the safety and security of people using the region’s transportation system is the fundamental goal of all agencies that deal with the system. Providing a safe and secure transportation system is paramount from planning to operations. Providing safety and security requires an understanding of what areas are vulnerable and why. Using data and analysis to identify these areas helps the region focus on the greatest risks and proactively avoid creating new vulnerabilities.

Overall, the region has more work to do to reach the vision of a transportation system that is safe for all users. The Metropolitan Council joins its partners, including MnDOT, the Minnesota Department of Public Safety, the Minnesota Department of Health, and local jurisdictions, to advance the state’s Toward Zero Deaths Program, which has a vision of a fatality-free roadway system. Regional transportation partners also use best practices to provide and improve safe walking and bicycling, since pedestrians and bicyclists are the most vulnerable users of the transportation system.

However, the region is seeing increases in the numbers of pedestrians killed or seriously injured in traffic crashes, and they are making up larger percentages of overall deaths and serious injuries.
Safety and security on transit is, in part, as much about the perception of safety, including providing environments that feel safer through lighting, design, and technology such as cameras. The region has installed cameras onboard buses and trains, and in some stations, and has its own Metro Transit police force that collaborates with local enforcement agencies to respond to incidents quickly and effectively.

Not everyone has the same experience using the region’s transportation system. Analyses of enforcement data show that people of color experience disproportionate stops and enforcement on transit. Met Council and its regional partners will need to work to ensure that enforcement on the transportation system does not create or perpetuate these racial inequities. In 2020 and 2021, Metro Transit will be working with community partners to review its policies, practices and procedures for equity.

Rail freight incidents occur less frequently than truck freight incidents, but tend to be high profile, and have the potential to cause more fatalities, injuries, and damage to property. The Federal Railroad Administration has developed a National Rail Safety Action Plan that identifies safety improvements railroad companies need to take, such as improving or eliminating at-grade crossings. Other measures include maintaining sufficient right-of-way in case there is a spill or derailment. Another notable rail freight safety and security issue caused by trespassing in operating rail corridors. Numerous trespassing-related deaths occur each year across the nation and trespassing can also pose a security threat to rail freight shipments. More planning should be done to optimize the number of safe rail corridor crossings for people and vehicles.

The changing climate poses new threats to transportation infrastructure, particularly from warming winters, extreme rainfall, and heat waves. The Council has published a Climate Vulnerability Assessment to identify risks to infrastructure, including transportation infrastructure.

Measuring Performance
Performance measures that will be used to measure improved safety and security include:

- Number and rate of crashes with serious or fatal injuries
- Fatal or incapacitating injuries involving bicyclists or pedestrians

Related Thrive MSP 2040 Outcomes: Stewardship, Livability, Equity
OVERVIEW

GOAL: ACCESS TO DESTINATIONS

A reliable, affordable, and efficient multimodal transportation system supports the prosperity of people and businesses by connecting them to destinations throughout the region and beyond.

Objectives:

A. Increase the availability of multimodal travel options, especially in congested highway corridors.

B. Increase reliability and predictability for travel on highway and transit systems.

C. Ensure access to freight terminals such as river ports, airports, and intermodal rail yards.

D. Increase the number and share of trips taken using transit, carpools, bicycling, and walking.

E. Improve the availability and quality of multimodal travel options for people of all ages and abilities to connect to jobs and other opportunities, particularly for historically underrepresented populations.

STRATEGIES SUMMARIZED:

- The region will focus on providing a transportation system that offers practical and affordable options, so all users, regardless of their social or economic background, can get to the places they need to go.

- This plan emphasizes the importance of improving and expanding transportation options through investments in a multimodal system with regional bicycle access and local pedestrian amenities; transitways, local and express bus services; and highways with MnPASS options.

- The plan emphasizes connecting people to destinations, like grocery stores, work, parks, and childcare, and investments that lead to prosperity for all people.

How Do We Get There?
Driving is still the way most trips are made in the region.

- Biking: 9%
- Transit: 2.8%
- School bus: 1.2%
- Walking: 8.7%

Commuting to Work

- 92.2% Drive alone
- 4% Carpool
- 1.7% Walk
- 2% Transit

Where is MSP Going?

- Work: 25%
- Maintenance: 38%
- Social Recreation: 30%
- School: 7%

*Data has been updated from the 2019 Travel Behavior Inventory household survey. This new biennial survey uses somewhat different methods than the past. Council staff will be studying which changes from 2010 data represent significant changes in behavior, and which are a result of improved survey methods.
Providing access is transportation’s fundamental purpose for people and businesses. There are ways in which access can be better provided, and there are barriers to good access that need to be managed or eliminated.

Both population and employment are forecasted to increase in the coming years, which will increase congestion. Maintaining good regional access to destinations will require implementing a variety of strategies and tools to address congestion including providing multimodal options, implementing travel demand management and congestion management strategies and making highway improvements. Travel demand management strategies could involve promoting transit, biking and walking, as well as encouraging employers to increase teleworking and flexible work hours.

Congestion management includes using technology to help manage the flow of traffic during rush hours and to clear incidents quickly. Highway improvements bring in low-cost, high-benefit spot mobility improvements, MnPASS lanes, and strategic capacity enhancements as a final option. MnPASS lanes are free for cars with two or more passengers, and provide less congested, more reliable lanes for transit and carpools during peak use times. MnPASS also provides a subscriber option for single-occupant vehicles and small delivery trucks to bypass congestion for a fee.

Multimodal options include a variety of transit services from bus and train service to dial-a-ride or shared ride, as well as bicycling and walking. In heavily traveled corridors, transit can be an advantage because of bus-only highway shoulders, ramp meter bypasses, and park-and-ride lots. Bicycle and pedestrian infrastructure will continue to be improved throughout the region with the aim of increasing access, connectivity, and safety.

Lack of access to frequent and convenient transit disproportionately affects historically underrepresented populations like people of color and American Indians, those with low incomes, or those with disabilities who are less likely to drive or don’t have access to a car. Improving transit options and accessibility for these communities increases opportunities for employment, education, and training.

Efficient freight transport through and within the region is vital to our economic competitiveness. Freight-related infrastructure such as ports and intermodal rail yards should be protected because they are expensive to relocate. Many of these facilities are located near highways for easy access through and beyond the region.

Measuring Performance

Performance measures that will be used to measure improved mobility and access to destinations include:

- Access to jobs
- MnPASS usage
- Percentage of travel by modes other than single-occupant vehicles
- Transit ridership
- Mode participation rate
- Peak hour excessive delay
- Average aircraft delay at MSP International Airport
- Regional bicycle transportation network implementation

Related Thrive MSP 2040 Outcomes:

Equity, Livability, Prosperity
OVERVIEW

GOAL: COMPETITIVE ECONOMY

The regional transportation system supports the economic competitiveness, vitality, and prosperity of the region and state.

Objectives:

A. Improve multimodal access to regional job concentrations identified in *Thrive MSP 2040*.

B. Invest in a multimodal transportation system to attract and retain businesses and residents.

C. Support the region’s economic competitiveness through the efficient movement of freight.

STRATEGIES SUMMARIZED:

- The plan directs investment so the transportation system will serve the generations of today and tomorrow and attract talent and businesses looking for a place to prosper.
- This plan expands the regional transit and bicycle systems and provides reliable options on the highway system to keep the region competitive.
- Our connections to places beyond the region that foster its growth and economic prosperity will be strengthened by corridors that connect us statewide and beyond, reducing the impacts of congestion on freight corridors and supporting a strong airport system with national and international connections.

The region’s economy is strong and trending up.

- **$243B** Gross regional product in 2018
- **1.8M** Jobs in 2020
- **3%** Projected unemployment rate in 2020

The region’s economy is diverse and includes:

- Health care
- Retail and wholesale trade
- Sports and Entertainment
- Education services
- Manufacturing
- Hospitality
- The arts
- Finance, professional and technical services
A good transportation system is fundamental to a robust and thriving economy. To continue being competitive, the region must shift its focus to operating and maintaining what we have while at the same time creating a more multimodal system that provides all its residents and businesses choices in how they or their freight moves from point A to B. Providing practical alternatives to the single-occupant car benefits everyone, including those who want to drive and never use another mode. Providing people safe and convenient transportation choices such as walking, bicycling, and transit can remove cars from highways and streets, and increases quality of life for everyone.

An integrated multimodal transportation system helps to retain and grow existing businesses and industries, and attracts new ones. It also retains and attracts talent, and the market shows people are increasingly seeking a less car-dependent lifestyle. The region will focus on investing in a multimodal system that builds on its well-developed highway system to expand and better integrate transit, bicycling, and walking improvements that support and strengthen the region’s economy.

*Thrive MSP 2040* has identified 42 job concentrations as of 2011. These job concentrations are contiguous areas that have at least 7,000 jobs at a net density of at least 10 jobs per acre. The Council will continue to monitor employment patterns to identify new concentrations that meet these criteria. Transportation priorities should be geared toward providing good access to these concentrations while still addressing emerging needs in other areas.

Providing good access to freight terminals throughout the region is also key to this objective. As mentioned before, efficient freight movement is vital to the region’s economy, especially maintaining existing freight facilities, which are often difficult and costly to relocate. Communities should identify and preserve land near highways for certain freight movement, particularly in existing industrial areas.

**Measuring Performance**

Performance measures that will be used to measure transportation-related elements include:

- Travel time reliability for freight traveling on highways
- Percentage of existing population near high-frequency transit service
- Cost per passenger mile at MSP International Airport

**Related Thrive MSP 2040 Outcomes: Prosperity, Livability, Sustainability**
OVERVIEW

GOAL: HEALTHY AND EQUITABLE COMMUNITIES

The regional transportation system advances equity and contributes to communities’ livability and sustainability while protecting natural, cultural, and developed environments.

Objectives:

A. Reduce transportation-related air emissions.

B. Reduce impacts of transportation construction, operations, and use on the natural, cultural, and developed environments.

C. Increase the availability and attractiveness of transit, bicycling, and walking to encourage healthy communities through the use of active transportation options.

D. Provide a transportation system that promotes community cohesion and connectivity for people of all ages and abilities, particularly for historically under-represented populations.

STRATEGIES SUMMARIZED:

- The plan works toward state and regional goals for greenhouse gas and air pollutant emissions by factoring these considerations into the Metropolitan Council’s operations and investment priorities. The plan also starts a dialogue on how all the region’s partners, including local governments, can contribute to these efforts.

- The plan supports a transportation system that considers the needs of all potential users while promoting the environmental and health benefits of transportation options like carpooling, transit, bicycling, and walking.

- Investments in the transportation system will protect and enhance the natural, cultural, and developed environments, and will be identified through effective engagement with affected communities.

- A special emphasis is placed on avoiding, minimizing, and easing impacts of the current and future transportation system on people and the environment, especially disproportionately harmful outcomes for people of color and American Indians, or people who have low incomes.

There are a number of ways to define health and environment that are relevant to transportation and the region’s development. For example, health can include the physical well-being of people, the quality of the environment that supports health and well-being, or the potential for social capital for an entire community. Examples of environment include the air we breathe, the water we drink and play in, the weather we experience, the characteristics of the neighborhood we live in, and the built infrastructure of roads, bridges, and buildings. A healthy environment is one where impacts of transportation are considered and mitigated in as many ways as we can afford.
Transportation has an enormous impact on air quality. The region’s transportation-related pollutant emissions account for:

- 68% of carbon monoxide emissions
- 40% of nitrogen oxide emissions (toxic by itself and an ozone precursor)
- 32% of volatile organic compound emissions
- 5% of particulate matter (small particles of pollution in the air that can be inhaled)

In November 2019, the Twin Cities region went into attainment for carbon monoxide air quality, which means the region has met or done better than the National Ambient Air Quality Standards for more than 20 years. The Environmental Protection Agency has designated a small part of the Twin Cities region as a maintenance area for coarse particulate matter. A map of this area is included in Appendix E. While the region has not exceeded the federal standards for fine particulate matter and ozone concentrations, current concentrations of those pollutants in the region reach 80% of standards. Reaching attainment places a renewed focus on all transportation-related emissions. Along with carbon monoxide, air pollutants like ozone and particulate matter continue to affect the health of people in the region. Additionally, transportation accounts for one quarter of statewide greenhouse gas emissions, contributing to global climate change. The region supports state efforts related to the Next Generation Energy Act to reduce all greenhouse gas emissions to 80% below 2005 levels by 2050. In addition, the state announced in 2019 two new clean car standards to reduce vehicle emissions in our state. The low-emission vehicle (LEV) standard and the zero-emission vehicle (ZEV) standard.

The region will consider air pollutant and greenhouse gas emission information as it makes investments with a target of helping to reduce transportation’s contribution, particularly by supporting transportation options such as carpooling, transit, bicycling, walking, and shipping freight by rail or barge. The region will also develop more efficient land use and development patterns that contribute to lower pollutant and greenhouse gas emissions. But all of these will be the starting point for a broader conversation with local, regional, state, and federal partners about how the region can be more sustainable in our decision-making and outcomes.

If not appropriately managed, transportation construction and operations can negatively impact communities, including significant noise, pollution, and inaccessibility due to lane or sidewalk closures. It is critical for regional transportation providers to coordinate with each other, with communities, and other organizations such as Transportation Management Organizations to help diminish the effects of construction on residents, businesses, pedestrians, bicyclists, and drivers. Some actions include:

- Signage, detours, and maintenance of access for pedestrians and bicyclists
Incentives to construction companies to work during off-peak construction times such as at night or on the weekends, where appropriate

Financial and/or marketing support of businesses affected by disruption of roadway construction

Transportation can play a significant role in fostering personal and community health by increasing pedestrian and bicycle infrastructure and connecting them region-wide. Many residents in the region want the option of walking or bicycling to work, school, errands, and appointments but do not feel they have safe routes. The Metropolitan Council will continue to promote bicycle and pedestrian infrastructure including planning with communities to enhance the system, close gaps, and make critical connections region-wide. Walkable and bikeable communities also tend to have healthier residents.

During the development of the Interstate system in Minneapolis and Saint Paul, communities of color and low-income communities were disproportionately affected. Many communities were severed. Streets and walkways that connected different parts of neighborhoods were interrupted by freeways. The legacy of the Interstate system has been both positive and negative as discussed earlier in this introduction. One of many goals moving forward is to help reestablish neighborhood connections that were lost, and design new transportation projects with an eye toward community cohesion, accessibility, and appropriate size and scale for people in- and outside motor vehicles.

An example was the building of I-94 through the Rondo neighborhood in St. Paul. The freeway completely severed this historically vibrant and thriving African-American neighborhood, which both destroyed community connections and reduced opportunities for financial prosperity. Residents were separated from businesses and services, and those businesses were separated from key markets necessary to their success. Were the project proposed today as built, it would probably fail on the grounds that it disproportionally affected a historically underrepresented community.

While some may argue that the days of community-disruption project plans are over, it’s important to understand that transportation investments must connect communities and enhance access to opportunities rather than disconnecting them, making it more difficult for people to access jobs and opportunities. It’s also important to assure that the people potentially affected by these projects and investments have an opportunity to assess the impact on their own communities and influence the ultimate decision.

With these considerations, whether near an area of concentrated poverty or simply involving a portion of a community that could benefit from access to jobs and commerce, our investments have a better chance of achieving equitable outcomes.

**Measuring Performance**

Performance measures that will be used to measure the transportation-related elements of state of the environment include:

- Miles traveled via biking and walking
- Vehicle-miles traveled per person
- Air emissions from on-road vehicles

**Related Thrive MSP 2040 Outcomes:**

**Stewardship, Equity, Livability, Sustainability**
GOAL: LEVERAGING TRANSPORTATION INVESTMENT TO GUIDE LAND USE

The region leverages transportation investments to guide land use and development patterns that advance the regional vision of stewardship, prosperity, livability, equity, and sustainability.

Objectives:

A. Focus regional growth in areas that support the full range of multimodal travel.

B. Maintain adequate highway, riverfront, and rail-accessible land to meet existing and future demand for freight movement.

C. Encourage local land use design that integrates highways, streets, transit, walking, and bicycling.

D. Encourage communities, businesses, and aviation interests to collaborate on limiting incompatible land uses that would limit the use of the region’s airports.

STRATEGIES SUMMARIZED:

- The Council will partner with local governments responsible for planning and implementing the land use and local infrastructure needed to support Thrive MSP 2040. Local governments will prepare comprehensive plans that address the policies in Thrive MSP 2040 and system plans.

- The plan emphasizes the importance of job concentrations and nodes along transportation corridors and the need for local governments to plan for more dense development and diverse uses especially in these areas. The plan also emphasizes the importance of freight terminals and corridors, and their relationship to land use planning.

- The plan will ensure that local government land use policies allow for the creation of livable communities that support stewardship and sustainability of the transportation system, and the prosperity and livability of our region. This includes:
  - Planning and implementing an ample system of interconnected local highways and streets
  - Supporting higher expectations for land use around transit stations
  - Including bicycle and pedestrian elements, and supportive tools, in comprehensive plans
  - Planning for the long-term needs of freight modes such as trucks, barges, and railroads
  - Balancing the needs of the aviation system with local land use decisions
This plan describes relationships between land use and transportation, and the importance of coordinating strategic planning for both. This coordination requires strong partnerships between the Council, MnDOT, other regional transportation partners, and local communities that plan for land use, regulate its implementation, and provide the local transportation system. These important relationships impact the sustainability and stewardship of our natural, cultural, and fiscal resources. They impact our choices for where we live, how we travel, and how we ship our freight.

To guide our growth equitably, efficiently, and sustainably, the Council will continue to collaborate with communities on their local plans to support their development and growth in ways that best meet their needs and the needs of the regional Thrive MSP 2040 vision.

The intersection of land use, urban form, and the transportation system shapes the effectiveness of stewardship of transportation investments. The Council will work with local governments to align development patterns and highway investments by focusing growth and investment along corridors with strong potential for future transit or managed lanes. Areas outside these corridors may continue to develop but will receive only limited investments from federal or state sources for new or expanded highways.

An important emphasis of Thrive MSP 2040 is encouraging local communities to guide denser and more mixed-use development to job concentrations and nodes along corridors. This will provide greater housing options near jobs and activities that are cost-effectively supported by highways, streets, transit, bicycling, and walking, creating more livable communities where the market demands them. Local communities can also identify local centers to emphasize for this type of development.

The region is changing its focus from expanding the highway system to operating and maintaining it and investing in an expanded network of transitways supported by strong bicycle and pedestrian systems. To correspond, local governments should plan for higher intensity land use near transitways, including:

- A mix of housing choices, retail, and other commercial uses around station areas, known as transit-oriented development.
- Communities designed for biking and walking, where residents can choose to use their car less (or not at all) to go shopping, get to a transit stop or station, get to work and school, and recreation areas.
• Building housing and commercial developments that are denser to create more successful and efficient transit service areas, including providing more transit service.

• Providing a mix of housing choices, including affordable options near transit to accommodate youth, the elderly, and populations looking for an alternative to driving.

Thrive MSP 2040 also emphasizes the significance of continuing to move freight efficiently to our region’s overall prosperity. Our highway, railroad, river, and aviation systems will continue to be the foundation for these important freight movements. Freight infrastructure and land use – particularly riverfront and rail-accessible facilities – can be difficult and expensive to reestablish.

Just as with freight-related land uses and infrastructure, the region’s airports are important to the flow of commerce and people. Communities, businesses, and aviation stakeholders should collaborate to:

• Limit residential and other incompatible land use encroachment near airports
• Limit negative impacts on adjacent communities including noise

Measuring Performance

Performance measures that will be used to measure the alignment of transportation and land use include:

• Industrial land near river/rail access
• Percentage of projected population and job growth near high-frequency transit service
• Inclusion of transit supportive policies in local comprehensive plans

Related Thrive MSP 2040 Outcomes: Stewardship, Livability, Sustainability
Investing in the Region’s Transportation System

Investments in the region’s transportation system depend on a complex mix of funds and funding sources, including tax dollars from local, county, state and federal sources, user fees and fares.

From 2015 through 2040—the duration of this Transportation Policy Plan—it is estimated that $93 billion will be available for transportation funding in the region. Of these, about 45% of funds are from local sources (taxes, fares), 40% are from state taxes and fees; and 15% are from federal sources. When spending these funds, about 44% are designated for local transportation, 39% for transit and 17% for highways. This funding level will not meet the needs of the region’s transportation system over time, and inadequate transportation funding remains a major issue facing the region.

TRANSPORTATION SPENDING IN THE REGION
$93.3 B TOTAL

STATE HIGHWAYS (MNDOT)  $15.8 B  +  REGIONAL TRANSIT  $36.3 B  +  LOCAL ROADS  $41.2 B

The condition and performance of our highways will decline if transportation funding continues at the current level. Current highway funding (from all sources – state, federal and local) is increasing at less than the rate that costs are increasing for highway construction and maintenance. Over time, this will lead to a greater number of roads and bridges in the region rated in poor condition, with limited resources to address those issues.

For transit, current funding levels can maintain today’s transit system, but without the ability to improve or expand the bus system. Current funding levels, primarily due to local revenues from the county sales taxes for transit, also can provide slow growth for transitways (light rail, bus rapid transit). However, this funding level does not meet the projected demands for more transit service from a growing regional population filling an increasing number of jobs.
Identifying transportation priorities is essential when transportation dollars are limited. During this plan’s initial development in 2015, the Metropolitan Council consulted with regional policymakers including county and city elected officials and staff, state agencies such as the Minnesota Department of Transportation (MnDOT), and the public to identify factors for setting investment priorities for highways and transit. The identified transportation investment factors are used to prioritize potential investments. They are incorporated into the regional outcomes noted in *Thrive MSP 2040* (the Metropolitan Council’s overall plan for the region), as well as in the goals and objectives in this transportation plan. These investment factors can be found at [metrocouncil.org/tpp](http://metrocouncil.org/tpp).

**Two Funding Scenarios**

This Transportation Policy Plan uses two funding scenarios: Current Revenue Scenario and Increased Revenue Scenario.

The Current Revenue Scenario assumes that transportation funds will be available based on current laws and experience (under federal regulations, this scenario is called “fiscally constrained”). The Current Revenue Scenario in this plan assumes revenue growth consistent with past growth rates and experience with revenue sources. This plan also accounts for recently enacted county sales tax and wheelage tax increases, and new state highway revenues provided in the 2017 legislative session. No other new increases or changes in federal, state, or local taxes are assumed.

The Increased Revenue Scenario represents how the region could invest if funds were available beyond past growth rates implemented through policy and statutory changes at the local, state, or federal levels. Under federal regulations, the programs or projects identified in the Increased Revenue Scenario are examples of what might be achieved with additional revenues, but these projects are not part of the approved plan.
Figure 2: Regional Transportation Revenue and Spending 2015-2040

$93.3 B Current Revenue Scenario (Billions) - Revenue*

Transit $36.3
- Property Tax & Other $2.8 - 3%
- County Sales Tax $5.5 - 6%
- Federal $7.4 - 8%
- Fares $4.4 - 5%
- State Taxes $16.2 - 17%

State Highway $15.8
- Highway User Taxes $11.3 - 12%
- Federal $4.4 - 5%
- State Aid $9.9 - 11%
- Federal $2.2 - 2%
- Property Tax & Assessments, Sales Tax $28.3 - 30%

Local Transportation $41.2
- Wheelage Tax $0.8 - 1%

$93.3 B Current Revenue Scenario (Billions) - Spending*

Transit $36.3
- Transitway Capital $7.6 - 8%
- Transitway Operating $6.3 - 7%
- Bus Capital $4.5 - 5%
- Bus Operating $17.9 - 19%

State Highway $15.8
- Operating $15.6 - 17%
- Capital $25.6 - 27%
- Capital Preservation $10.5 - 11%
- Capital Mobility/Safety $2.3 - 3%

Local Transportation $41.2
- Operations $2.9 - 3%
- Capital $25.6 - 27%
- Capital Preservation $10.5 - 11%
- Capital Mobility/Safety $2.3 - 3%

* These financials do not reflect the Riverview amendment and related project funding.
OVERVIEW

Figure 2 – the two pie charts - show the region’s revenues and spending estimated from 2015 to 2040 for all transportation purposes under this plan’s Current Revenue Scenario. Over the 26-year duration of this plan, an estimated $92 billion will be available for transportation purposes region-wide. Regional transportation revenues and spending are categorized into three broad types:

- Local transportation includes revenues and spending by cities and counties on local transportation systems, including roads, streets, and local bicycle and pedestrian systems.
- The state highway category includes revenues and spending on the state highway system by MnDOT in the metropolitan area.
- The transit category includes revenues and expenditures to build and operate the buses and transitways by all regional transit providers, counties, and other local governments.

**Regional Transportation Revenues**

Funding for the region’s transportation system comes from local, state, and federal sources. These include user fares, fees, general state and local taxes, federal formula funds and competitive federal funds, some of which the region competes for with other metropolitan areas. The general breakdown of regional transportation funding is as follows:

- **45%** - Local sources (including property taxes, county sales taxes, and user fares)
- **40%** - State taxes and fees
- **15%** - Federal sources

A major portion of the state and federal sources is the gas tax.

Over the 26-year duration of this plan, funding sources are assumed to grow at varying rates depending on the source and history of the past revenues. Details on the revenue growth assumptions can be found in Chapter 4, “Regional Transportation Finance,” in the 2040 Transportation Policy Plan (2020 update).
Local Funds and Local Decisions Support Regional Transportation

Transportation funding provided through local revenue sources, such as property taxes, provide a significant percentage of total funding for transportation in the metropolitan area. In the past, local revenues (such as property taxes) provided a very small amount of funds for transportation investments on the regional highway and transit systems. However, recent changes in state law, which allowed for the implementation of county sales taxes (for transportation) and an increase in local wheelage taxes, now enable local decision makers to choose to use these new potential sources of funding for regional transit and highway investments.

An example is the implementation by Carver, Hennepin, Ramsey, Scott, and Wright counties of a half-cent sales tax dedicated to transportation. Anoka, Dakota, and Washington counties have implemented a quarter-cent sales tax dedicated to transportation. Hennepin and Ramsey counties have indicated that a majority of their sales tax revenues will be used for regional transitway capital and operating purposes. Several other counties are proposing using a portion of these local funds to contribute to improvements on the state-owned highway system operated by MnDOT.

The Regional Solicitation is another source of transportation funds where local stakeholders help determine their use. Every other year, through the Regional Solicitation, counties and cities make application and compete for federal transportation funds for transportation projects. As the region’s federally designated metropolitan planning organization, the Metropolitan Council and its Transportation Advisory Board review these applications using an objective, data-driven, transparent process, and determine how funds are allocated.

Eleven application categories are available, including roadway expansion and modernization, bridge rehabilitation and replacement, multiuse trails and bicycle facilities, and transit expansion and modernization. (Modernization projects might include safety, technology, or efficiency improvements.) The 2020 regional solicitation has two new funding categories: roadway spot mobility and safety, and an arterial bus rapid transit project. The availability of Regional Solicitation funds has increased the role of local jurisdictions in regional transportation planning and funding. Local jurisdictions receiving these federal transportation dollars increasingly are dedicating these funds to improve region-wide transportation amenities.
Dedicated Funds for Transportation

No matter their source, nearly all transportation funds are distributed specifically by Minnesota’s constitution, or state or federal law, for roadway or highway purposes, or are allocated for transit purposes. Funds specifically designated for one mode, in most cases, cannot be redistributed for another modal purpose. The Regional Solicitation, which represents approximately 3% of the region’s total transportation revenue, is the primary source of flexible funding – it can be used for roadways, transit, or bicycle and pedestrian projects.

This funding is allocated to the Met Council under federal law. Its distribution, scoring of applications and selection of projects is led by the Transportation Advisory Board. Local units of government can decide to use some local transportation funds (property taxes and transportation sales taxes) for flexible purposes. Table 1 shows both the approximate 2018 amounts expected from each revenue source and the total amount expected to be raised from that revenue source for transportation, over the 26-year duration of the plan.

Table 1: Metropolitan Area Projected Transportation Revenues, 2015-2040*

<table>
<thead>
<tr>
<th>REVENUE SOURCES</th>
<th>Ongoing or Project-Specific Funding</th>
<th>2018 Annual Amount</th>
<th>Total Current Revenue Scenario 2015-2040</th>
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<tbody>
<tr>
<td><strong>State Highway Revenues</strong></td>
<td></td>
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<td>Highway User Taxes</td>
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<td><strong>Subtotal State Highway Revenues</strong></td>
<td></td>
<td>$439 M</td>
<td>$15.8 B</td>
</tr>
<tr>
<td><strong>Transit Revenues</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Motor Vehicle Sales Tax</td>
<td>Ongoing</td>
<td>291M</td>
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<tr>
<td>State General Fund/Bonds</td>
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<td>132M</td>
<td>5.3B</td>
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<td>Fares</td>
<td>Ongoing</td>
<td>121M</td>
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<td>Federal Regional Solicitation</td>
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<td>.8M</td>
</tr>
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<td>Federal Formula (5307, 5340)</td>
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<td>112M</td>
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<tr>
<td>Fed. Capital Investment Grants (CIG)</td>
<td>Project-Specific</td>
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<td>3.3B</td>
</tr>
<tr>
<td>County Sales Tax</td>
<td>Project-Specific</td>
<td>328M</td>
<td>5.5B</td>
</tr>
<tr>
<td>Property Tax and Other</td>
<td>Project-Specific</td>
<td>131M</td>
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<tr>
<td><strong>Subtotal Transit Revenues</strong></td>
<td></td>
<td>$1.1 B</td>
<td>$36.3 B</td>
</tr>
<tr>
<td><strong>Local Transportation Revenues</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highway User Taxes/Veh. Lease Tax</td>
<td>Ongoing</td>
<td>308M</td>
<td>9.9B</td>
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<tr>
<td>Federal Regional Solicitation/HSIP</td>
<td>Project-Specific</td>
<td>64M</td>
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<td>Wheelage Tax</td>
<td>Ongoing</td>
<td>26M</td>
<td>800M</td>
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<td>Property Tax/Sales Tax/Assessments</td>
<td>Ongoing</td>
<td>911M</td>
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<td><strong>Subtotal Local Transportation Revenues</strong></td>
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<td>$1.3 B</td>
<td>$41.2 B</td>
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<td><strong>TOTAL REVENUES</strong></td>
<td></td>
<td>$2.9 B</td>
<td>$93.2 B</td>
</tr>
</tbody>
</table>

* These financials do not reflect the Riverview amendment and related project funding.
Regional Transportation Spending

Transportation expenditures, or spending, generally fall into one of two categories: capital expenditures or operations expenditures. Local transportation, state highways, and transit spending categories all have capital and operations expenditures. Capital expenditures include new construction, reconstruction, and improvement or replacement of transportation facilities, such as roadway pavement or bridge replacement. Operations expenditures include wages for transit operators, fuel and vehicle maintenance, snowplowing, and minor facility repair. Table 2 shows regional transportation spending with both an annual amount for 2018 and total transportation spending – more than $93 billion – expected from 2015-2040, the duration of this transportation plan.

Transit operations are different from highway or roadway operations. For example, transit operations include the operator and vehicle costs associated with daily service operations. For roadways, the equivalent operational expenses are incurred by private vehicle drivers, as driving is mostly a cost to individuals. Examples of these costs include the purchase of private vehicles, fuel costs, insurance, and vehicle maintenance. These privately incurred expenses, when totaled, greatly exceed public roadway expenditures.

Table 2: Metropolitan Area Projected Transportation Spending, 2015-2040*

<table>
<thead>
<tr>
<th>EXPENSES</th>
<th>2018 Annual Amount</th>
<th>Total Current Revenue Scenario 2015-2040</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>State Highways Expenses</strong></td>
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<tr>
<td>Operations</td>
<td>88M</td>
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<tr>
<td>Capital Asset Preservation</td>
<td>298M</td>
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<td>Capital Mobility/Expansion</td>
<td>52M</td>
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<tr>
<td><strong>Subtotal State Highways Expenses</strong></td>
<td>$439 M</td>
<td>$15.8 B</td>
</tr>
<tr>
<td><strong>Transit - Bus and Support System</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations</td>
<td>438M</td>
<td>17.9B</td>
</tr>
<tr>
<td>Capital</td>
<td>65M</td>
<td>3.75B</td>
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<tr>
<td>Regional Solicitation</td>
<td>24M</td>
<td>.75M</td>
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<td><strong>Subtotal Bus and Support System</strong></td>
<td>527M</td>
<td>22.4B</td>
</tr>
<tr>
<td><strong>Transit - Transitway System</strong></td>
<td></td>
<td></td>
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<tr>
<td>Operations</td>
<td>97M</td>
<td>6.3B</td>
</tr>
<tr>
<td>Capital</td>
<td>408M</td>
<td>7.2B</td>
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<tr>
<td>Locally designated to future projects</td>
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<td>.4B</td>
</tr>
<tr>
<td><strong>Subtotal Transitway System</strong></td>
<td>505M</td>
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<tr>
<td><strong>Subtotal Transit Expenses</strong></td>
<td>$1.0 B</td>
<td>$36.3 B</td>
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<tr>
<td><strong>Local Transportation Expenses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>496M</td>
<td>15.6B</td>
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<tr>
<td>Capital</td>
<td>813M</td>
<td>25.6B</td>
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<tr>
<td><strong>Subtotal Local Transportation Expenses</strong></td>
<td>$1.3 B</td>
<td>$41.2 B</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td>$2.8 B</td>
<td>$93.3 B</td>
</tr>
</tbody>
</table>

* These financials do not reflect the Riverview amendment and related project funding.
**Highway Investment Summary**

Chapter 5, “Highway Investment Direction and Plan,” of the 2040 Transportation Policy Plan (2020 update) continues the investment direction set in the previous Transportation Policy Plan (2015) and the Minnesota State Highway Investment Plan published in January 2017. These include:

- Placing priority on operating, maintaining, and rebuilding the existing state highway system
- Continuing to make safety improvements on the Regional Highway System a priority
- Implementing mobility improvements such as traffic management technologies, spot mobility improvements (improve traffic flow and provide bottleneck relief), new or extended MnPASS (high-occupancy toll) lanes, and affordable strategic capacity enhancements (such as new interchanges)

In the Current Revenue Scenario in Chapter 4, “Transportation Finance,” $15.8 billion are anticipated to be available for state highways for the years 2015-2040. Seemingly a sizeable total, planning and analysis concludes that it will not be adequate to fully fund the core functions of operating, maintaining, and rebuilding the existing state highway system. And while these core functions must happen in order to preserve the existing state highway system, this system will not accommodate the region’s growing travel needs. For our growing region to continue to prosper, adequate funds are needed for both existing system preservation, as well as highway mobility improvements when other travel demand and congestion management strategies are inadequate. These mobility improvements would require additional funds.

Figure 3 illustrates the highway investments that have been identified to date in the 2020-2029 timeframe. Because of identified funding constraints, few projects that increase mobility on our highways are anticipated after 2026. As mentioned earlier, some highway projects that increase mobility could be funded and led by local jurisdictions through new or expanded county sales and wheelage taxes.
Figure 3: Identified Highway Projects 2020 through 2029 (Current Revenue Scenario)
Additional information about the categories identified in Figure 3 can be found in Chapter 5, “Highway Investment Direction and Plan” of the 2040 Transportation Policy Plan (2020 update).

The Increased Revenue Scenario in this transportation plan calls for an additional $9 billion to $11 billion (in current dollars) above the Current Revenue Scenario. It is based on the 2016 update to MnDOT’s Minnesota State Highway Investment plan, plus updated information from MnDOT. This only includes MnDOT’s system and does not reflect the significant part of the regional highway system owned by counties and cities. Spending in the Increased Revenue Scenario would include programs such as:

- Requirements for additional highway operations and maintenance funding, estimated at $500 million to $1 billion, an increase of up to 35% over current funding
- Increases in highway, safety, and multimodal investments of approximately $4 billion to $5.5 billion, an increase of up to 50% over current spending levels
- Additional improvements for improved mobility and access projects of $4.5 billion, a 250% increase over current spending levels

**Transit Investment Summary**

Chapter 6, “Transit Investment Direction and Plan,” includes about $36 billion (calculated according to the year the funds will be spent) of transit investments under the Current Revenue Scenario. Additional bus and support (like customer information centers, scheduling centers, and maintenance facilities) system expansion and transitway projects are identified for potential investments in the Increased Revenue Scenario. A summary of the plan’s outcomes for the Current Revenue Scenario for transit is summarized below.

**Current Revenue Scenario – Bus and Support System**

The bus and support system includes local, express, dial-a-ride, and vanpool services that are available throughout the entire metropolitan area.

- The region is able to operate and maintain the existing bus and support system with current revenues.
- No significant expansion of bus service is possible in the Current Revenue Scenario beyond the growing demand for Metro Mobility dial-a-ride service for people with disabilities.
- There are funds for limited expansion and modernization of the bus and support system through maintenance and preservation efforts and through competitive funds like the Regional Solicitation or unique federal programs.
Current Revenue Scenario – Transitway System

In the Current Revenue Scenario, the region is able to operate and maintain the existing transitways, which include the METRO Blue Line, Green Line, Red Line, A Line, C Line and Northstar Line.

The region also expects to expand the transitway system by:

- Building and operating six additional METRO lines:
  - Orange Line (I-35W South Bus Rapid Transit); Small Starts Grant Agreement executed
  - Green Line Extension (Southwest Light Rail); Full Funding Grant Agreement executed
  - Blue Line Extension (Bottineau Light Rail)
  - Gold Line (Gateway dedicated bus rapid transit)
  - Rush Line dedicated bus rapid transit
  - Riverview modern streetcar

- Building another BRT line on an arterial (urban street) roadway: D Line (substantially replacing Route 5 from Brooklyn Center to the Mall of America)

With several metro-area counties generating revenues for transit investments, a number of other priorities could emerge as county plans are finalized. The Council amended the 2040 Transportation Policy Plan in February 2019, adding the Riverview transitway project to the Current Revenue Scenario.

In addition, partial funding has been identified for two additional bus rapid transit lines on arterial streets, like the existing A and C lines. This includes the Lake Street and Marshall Avenue corridor in Minneapolis and Saint Paul (B Line), and Hennepin Avenue and France Avenue corridor in Minneapolis and Edina (E Line). Planning and engineering work on these corridors will continue to advance until all the funding is identified for a future update or amendment to the Transportation Policy Plan.

A number of other policy groups and local project sponsors have developed study recommendations for transit projects throughout the region. These projects cannot be included in the Transportation Policy Plan’s Current Revenue Scenario until their funding outlook meets the reasonableness requirement for federal transportation planning. These projects are included in the Increased Revenue Scenario but could be amended into the Current Revenue Scenario if their status changes.
Figure 4: Map of Existing Transitways and Current Revenue Scenario Expansion Transitways
Increased Revenue Scenario — Bus and Support System

The Increased Revenue Scenario includes an expansion of funds for bus service averaging 1% per year, between 2015 and 2040. The needs for bus service likely exceed this estimate – the Regional Service Improvement Plan (described in Chapter 6, “Transit Investment Direction and Plan”) provides the basis for the most current assessment of these needs. The capital needs for bus service expansion are included in the Increased Revenue Scenario. These would provide opportunities to modernize the bus system and offer an improved overall customer experience.

The improvements in bus service under the Increased Revenue Scenario would provide for:

- Exploration of emerging trends in transit service such as microtransit, electric buses, and fare collection strategies and technologies
- Improved frequencies and hours of service on existing bus routes for more reliable, attractive service to more destinations
- Expanded bus route coverage to new areas, with an emphasis on connecting medium- and high-density residential areas with jobs and transitways
- Expanded commuter and express bus routes to new markets and improved routes where capacity is needed

Bus service expansion would be prioritized based on investment factors in Chapter 6, “Transit Investment Direction and Plan,” and would identify opportunities for all regional transit providers.

Under the Increased Revenue Scenario, modernization and expansion of transit facilities would provide for:

- Improved or expanded customer facilities including more shelters, better customer information, improved multimodal connections, and more amenities
- Expanded bus garages, layover facilities, and operations support facilities associated with the expansion of the system

Increased Revenue Scenario – Transitway System

The Increased Revenue Scenario identifies potential projects for accelerated investment in the transitway system by 2040. The level of investment and a list of prioritized projects will depend on a number of factors, including the details of proposed investments. There is a level of uncertainty in any project cost estimate during the planning process. Similarly, the need for funding to operate and maintain a transitway project depends on when a project would open, which is currently undetermined in this plan for the Increased Revenue Scenario. The technical and policy investment factors for setting transitway priorities would be considered in an Increased Revenue Scenario in a future plan update. For more information, see Chapter 6 “Transit Investment Direction and Plan.”

This scenario could reasonably include investments in corridors identified in Figure 5 “Transitway System in an Increased Revenue Scenario,” which are categorized based on their development status as follows:
Projects with study recommendations in advanced stages of development (e.g., environmental documentation or early engineering):

- METRO Red Line future stages
- Nicollet-Central modern streetcar

Projects with study recommendations:

- Midtown rail
- Red Rock bus rapid transit
- West Broadway modern streetcar
- Highway 169 bus rapid transit
- METRO Orange Line Extension

Projects under study or to be studied:

- Highway 36
- I-35W North
- I-394/Highway 55
- Robert Street
- North Central
- I-94 West

The Increased Revenue Scenario could also reasonably include the following arterial bus rapid transit investments¹, beyond the funded and partially funded projects in the Current Revenue Scenario:

- American Boulevard
- Central Avenue NE
- East 7th Street
- Nicollet Avenue
- Robert Street
- West Broadway Avenue

¹Several arterial bus rapid transit corridors are under consideration for other modes, such as modern streetcars.
Figure 5: Map of Transitway System in an Increased Revenue Scenario – Building an Accelerated Transitway Vision
Local Transportation Investment Summary

Local transportation includes all projects that are implemented or operated by cities and counties on local transportation system within their boundaries. These include local road and street operating and capital expenditures. It also includes expenditures for bicycle and pedestrian projects. As mentioned earlier, several counties also are investing in region-wide transportation system improvements.

Local transportation operations and capital expenditures are funded by three primary revenue sources: local property taxes and assessments, highway user taxes, and federal revenues. The highway user taxes are allocated to cities and counties based on state constitutional and statutory formulas that provide state aid for county and municipal state aid systems. According to MnDOT’s long-range estimates, highway user revenues for use by local jurisdictions for transportation will grow over the period of the plan by 2% annually.

As mentioned earlier, federal revenues are allocated to cities and counties for transportation through the biennial (every two years) Regional Solicitation process. The Regional Solicitation allocates federal funds available to the region through the federal Surface Transportation Block Grant program, Congestion Mitigation Air Quality, and Highway Safety Improvement Program. The process is competitive between local project sponsors, like cities and counties. The Metropolitan Council and its Transportation Advisory Board, in their role as the region’s metropolitan planning organization, use a detailed and transparent set of criteria to allocate the funds. Because these revenues are allocated through a competitive process every two years, it is difficult to know how much will be available to local governments.

Based on past allocations of the federal funds, along with inflationary assumptions of 2.2% annually for federal revenues, this plan estimates that approximately $2.2 billion of federal revenues will be available for local transportation over the period of this plan. An additional $750 million from Regional Solicitation funds is expected to be allocated to transit and is reflected in the transit investment summary.

It is difficult to know how local spending on transportation will grow over the period of the plan. What we do know is that historically, spending growth exceeds natural revenue growth, leading local governments to make decisions between potentially raising local taxes or doing fewer transportation projects. Because state and federal revenue for local use are growing at a rate less than inflation, locally controlled revenue sources, local property taxes and fees, and county transportation sales tax and wheelage taxes will be required to grow at a rate that exceeds inflation in order to maintain current levels of local transportation spending.

In 2018, the County Arterial Preservation study documented current pavement conditions on the A-minor arterials (e.g., Ramsey County Highway 34/University Avenue in Saint Paul and Dakota County Highway 31/Pilot Knob Road) as largely
in good to fair condition. Based on current policies and funding levels, the study estimated that, absent inflation, the region is well positioned to preserve pavement conditions. However, based on experience, inflation is expected to outpace the anticipated growth in revenue by a substantial margin. In the last years of this plan, this difference in revenue and cost growth could even reduce the buying power of transportation revenue by half or more. If this were to occur and current practices continued, the result could require an additional need between $800 million and $4 billion. This unmet need could be resolved in a number of ways. Agencies responsible for these roads will continue to implement better pavement management strategies and apply new technologies when available. They will also consider the need to shift resources towards preservation and away from other priorities, and further consider the need for additional transportation resources.

Regional Bicycle Transportation Network

The 2040 Transportation Policy Plan adopted in 2015 established the Regional Bicycle Transportation Network as the official regional bikeway network. It sets the region’s vision for bicycle planning and investment.

This network serves as the “backbone” arterial network to accommodate daily bicycle trips by connecting regional destinations and local bicycle networks. Additional goals include establishing an integrated and seamless network of on-street bikeways and off-road trails, and to encourage cities, counties, parks agencies and the state to plan and implement future bikeways that support the overall network vision.

Because there is limited funding for bikeway facilities at all levels, this regional network is planned to have the greatest potential to attract new riders. Specific facility treatments that can improve the attractiveness of the regional network to potential bicyclists are provided in Chapter 7 “Bicycle and Pedestrian Investment Direction.” Cities, counties, and parks agencies are also encouraged to plan and implement local bicycle facilities that connect their local bikeway networks to the regional network.
Figure 6: Map of Regional Bikeway Transportation Network
Aviation

Maintenance of existing airport facilities is the priority for aviation investments. Enhancements for the safety and security of air operations, many of which are required and funded by Homeland Security or Federal Aviation Administration, will also continue to be a priority.

Planned investments in the aviation system are demand driven and subject to change. They are reviewed every five to seven years as each airport updates its Long Term Comprehensive Plan. Larger projects beyond maintenance are not built unless needs warrant implementation.

An Environmental Assessment has been completed by the Metropolitan Airports Commission for all airport projects identified through 2020. Planned investments include a potential Minneapolis-Saint Paul International Airport (MSP) Terminal 2 expansion, since existing terminals are not capable of handling passenger numbers forecasted. Many of the future projects are landside based (e.g., terminals, roads, parking) and in progress, including roadway work, adding a hotel to the MSP campus, and large-scale terminal rehabilitation. The most recent long-term comprehensive plans also recommend runway extensions or runway relocations at Airlake Airport, Lake Elmo Airport, and South Saint Paul Airport. Preparation of Environmental Assessments and Environmental Assessment Worksheets are in progress at Lake Elmo and Crystal Airport.
Performance Outcomes

This Transportation Policy Plan builds on desired regional outcomes as identified in Thrive MSP 2040 and discussed in the Goals and Objectives section: stewardship, prosperity, equity, livability, and sustainability. This plan also addresses federal transportation planning requirements including Environmental Justice and the development of a performance-based transportation planning and programming process as required by Fixing America’s Surface Transportation (FAST) Act. Key performance outcomes are summarized here.

Equity and Environmental Justice

An important consideration for the Transportation Policy Plan is its impact on all populations in this region, particularly those who have been historically underrepresented, including communities of color, American Indians, and low-income populations. Past plans adhered to federal requirements for Environmental Justice; this plan further responds to additional aspirations for equity set forth in Thrive MSP 2040. In this plan, the terms “people of color and American Indians” and “low-income households” are used to address the federal Environmental Justice requirements for “minority and low-income.” Where regional approaches to pursuing equity are discussed, broader language is used, such as “all races, ethnicities, incomes, and abilities.”

Specific strategies and investments identified in the Transportation Policy Plan serve to create benefits or mitigate impacts on historically underrepresented populations, including communities of color, low-income populations, people with disabilities, and people with limited English proficiency. The following summarizes these key strategies and investments. See Chapter 10, “Equity and Environmental Justice,” for additional detail and discussion.

- **Public Engagement:** The Council prepared the 2040 Transportation Policy Plan under its Public Participation Plan for Transportation Planning and has built on the extensive outreach and engagement completed for Thrive MSP 2040, including targeted community engagement with historically underrepresented communities.

- **Healthy and Cohesive Communities:** Historically, transportation investment decisions that encroached upon, divided, or displaced neighborhoods, cut off access to the regional transportation system or blocked multimodal options have done great harm to communities of color and low-income populations. The 2040 Transportation Policy Plan seeks to reverse this direction by promoting the development and enhancement of healthy, connected communities.
OVERVIEW

• **Transit and Pedestrian Safety**: People of color and American Indians, low-income residents, and people with disabilities currently use the regional transit and pedestrian systems at higher rates than the general population and are more likely to be vulnerable when they are traveling.

• **Provision of Options**: Key to the philosophy of the Transportation Policy Plan is the provision of options. The expansion of options to travel and to access employment and other opportunities without requiring an automobile is especially important to low-income populations, who are less likely to own or have access to a vehicle.

• **Focus on Preservation**: While an equity assessment of historical preservation and maintenance investments and system condition has not been performed, higher concentrations of low-income populations, and people of color and American Indians, can be found in older areas of the region that would benefit from an increased focus on preservation.

• **Transit Service Planning**: Many of the Transportation Policy Plan’s strategies are aimed at improving the preservation of the transportation system in the urban center communities, where the highest concentrations of low-income populations and communities of color are currently located.

• **Spatial Analysis of Investments**: The spatial analysis of investments planned in the Current Revenue Scenario does not result in disproportionately high and adverse impacts to historically underrepresented populations.

• **Accessibility Analysis of Investments**: Highway and transit investments in the Current Revenue Scenario increase accessibility to jobs and other community amenities by both automobile and transit for both people of color and American Indians, and the total population. Transit investments in the Current Revenue Scenario provide higher percentage increases in accessibility for every destination type for people of color and American Indians, compared to the total population.

**Air Quality**

In November 2019, the Twin Cities region went into attainment for carbon monoxide air quality, which means the region has met or done better than the National Ambient Air Quality Standards for more than 20 years.

The Environmental Protection Agency has designated a small part of the Twin Cities region as a maintenance area for coarse particulate matter. A map of this area is included in Appendix E. Pursuant to the Air Quality Conformity Rule, the Council certifies that this plan conforms to the State Implementation Plan and does not conflict with its implementation.

State and regional goals are to reduce greenhouse gas emissions below 2005 levels by 15% by 2015, 30% by 2025 and 80% by 2050. The Statewide Multimodal Transportation Plan sets a statewide target of greenhouse gas transportation sector emissions to be less than 29.5 million tons carbon dioxide equivalent by 2025. By 2014 the state’s actual emission reduction was only 4% from 2005 levels, and currently Minnesota is not on track to meet 2025 goals. Since one quarter of statewide greenhouse gas emissions come from the transportation sector, reductions in transportation emissions will have to be part of the solution.
Transportation System Performance Measurement and Monitoring

Federal transportation funding law requires that the metropolitan planning process establish and use a performance-based approach to transportation decision-making. The Federal Highway Administration has issued rules to implement the performance-based approach. The rules address challenges facing the highway system, including:

- Improving safety
- Maintaining infrastructure condition
- Reducing traffic congestion
- Improving efficiency of the system and freight movement
- Protecting the environment
- Reducing delays in project delivery

In addition, the Federal Transit Administration has implemented performance measures addressing transit infrastructure condition.

Implementation of these performance measures by the Minnesota Department of Transportation (MnDOT) and the Metropolitan Council are detailed in the federal rules. The two agencies must establish targets for each performance measure. The safety performance measure must be reviewed annually in compliance with National Highway Traffic Safety Administration reporting requirements. All other measures must be reviewed biennially with two-year and four-year targets being set by MnDOT. The Metropolitan Council is required to either support the relevant MnDOT targets or establish targets within 180 days following the establishment of the state targets.

In addition to the federally-required performance measures, the Transportation Policy Plan includes a number of measures developed to better assess the plan’s impacts on issues important to the region. The historic trends of many of these measures are documented in the 2016 Transportation System Performance Evaluation. The Council is required to prepare this assessment prior to the update of each Transportation Policy Plan. Key findings from the initial performance measurement are summarized below. See Chapter 13, “Performance Outcomes,” for more detail and discussion.

These local measures were based on the measures reported in the previous 2040 Transportation Policy Plan adopted in January 2015 and developed in coordination with the region’s transportation providers. Targets for relevant local performance measures and the federal measures were developed and adopted in 2018.

By implementing the transportation projects identified in the Current Revenue Scenario, with no planned changes in land use, investments or personal behavior, the region is forecasted to experience the following outcomes by 2040. The point of comparison is the transportation system as it exists in 2015 with no additional investments.

- Forecast vehicle miles traveled: 90,092,000 (20% more than existing, 0.2% more than no-build scenario.)
- Forecast vehicle miles traveled per capita: 23.3 (2.5% less than existing, the same as the no-build scenario.)
- Forecast transit ridership: 460,000 Current Revenue Scenario would result in an increase of 145,000 daily transit trips from current conditions; the no-build scenario would result in an increase of 74,000 from current conditions.
Public Engagement

The 2040 Transportation Policy Plan was prepared following the Metropolitan Council’s Public Engagement Plan and its Public Participation Plan for Transportation Planning, which meets requirements of 23 CFR§450.316 and federal guidance on Environmental Justice.

This transportation plan was built on the extensive outreach and engagement activities that informed the development of Thrive MSP 2040. In developing Thrive MSP 2040, the Council engaged thousands of residents throughout the region, including targeted community engagement with historically underrepresented communities.

In addition, this plan, and its related elements, was created in collaboration with technical subject matter experts and policymakers who serve the Transportation Advisory Board and its technical advisory committees. The members of the board and technical committees reflect all levels of government (city, county, regional, state, federal) and interested parties who represent different transportation modes and community interests.

The Transportation Policy Plan strategies listed under the “Healthy and Equitable Communities” goal commit the Metropolitan Council and its regional transportation partners to foster public engagement in all systems planning and project development. Projects in the 2040 Transportation Policy Plan (adopted in 2015) Work Program—and related studies performed by local government partners, the Metropolitan Council, and MnDOT since 2015—are included as public engagement. These studies and engagement from other projects led to changes in regional policy or adjustments to this 2020 update to the 2040 Transportation Policy Plan.

- 2020 Transportation System Performance Evaluation
- 2019 Travel Behavior Inventory
- Transportation Improvement Program
- Regional Solicitation
- Congestion Management Process Plan
- MnPASS System III Study
- Principal Arterial Intersection Conversion Study
- Truck Freight Corridor Study
- Regional Bicycle Barriers Study
- Congestion Management Safety Plan
- Minnesota State Highway Investment Plan
- Riverview Corridor
- Rush Line Corridor
- West Broadway Transit Corridor
- Highway 169 MnPASS/Highway BRT Study
PUBLIC ENGAGEMENT

14,500+ PEOPLE ENGAGED
600+ AGENCY STAKEHOLDERS INVOLVED
NEARLY 300 MEETINGS/INTERACTIONS

COMMUNITIES AND INTEREST GROUPS ENGAGED

- Communities of color
- People with disabilities
- Immigrant and refugee groups
- Other racial and ethnic groups
- LGBTQ Communities
- Low-income communities
- Transit-dependent populations
- Senior populations

METHODS USED

- Listening Sessions
- Online tools
- Surveys
- Visualization techniques
- Bus-stop outreach
- Stakeholder meetings
- Focus Groups
- Meetings: town hall, pop-up, small groups, one-on-one, open house
2018 Update to the 2040 Transportation Policy Plan

The 2018 draft update to the 2040 Transportation Policy Plan was released for public comment on June 28, 2018. Public comment was received through Aug. 13, 2018. A public hearing was conducted on Aug. 1, 2018.

During the public comment period, nearly 300 comments were received from about 150 organizations and individuals, including 25 people who testified at the Aug. 1 public hearing. A complete summary of the public comment period is posted at metrocouncil.org/tpp.

Among the dominant themes from the public comment process were a number of elements related to transportation operations, which were primarily addressed in Chapter 2 of this document, through strategies and supportive local actions. Issues included:

- Advocating for a conversion to an electric-powered bus fleet by 2030 (see the Challenges and Opportunities section of this Overview on page 27)
- Concern over police presence on the transit system, for general policing and fare enforcement (see Strategy B8 in Chapter 2)
- Advocating for no/low fares and better promotion of the Transit Assistance Program, a low-income fare program offered by Metro Transit (fare policy is governed separately from the Transportation Policy Plan)
Draft 2020 Update to the 2040 Transportation Policy Plan

The 2020 draft update to the 2040 Transportation Policy Plan was released for public comment on June 24, 2020. Public comment was received through Aug. 10. A public hearing was conducted on July 27.

During the public comment period, over 200 commenters participated, including individuals and representatives of organizations – local governments and non-profit organizations - logging 419 comments. A complete summary of the public comments is posted at metrocouncil.org/tpp.

The main themes from the public comment period ask that the Met Council:

- Eliminate road expansion and invest in transit and active transportation to mitigate climate change and lower vehicle miles traveled
- Recognize that black, brown, indigenous communities and low-income populations are the most impacted by climate change; plan and invest to mitigate (transportation) inequities
- Promote best practice in parking policy to influence climate change and other negative effects.

Changes to the plan are primarily reflected in the Overview, Highway Investment Direction and Plan Chapter 5, Transit Investment Direction and Plan Chapter 6, and Work Program Chapter 14.
Mandates and Requirements for Regional Transportation

State-Mandated Comprehensive Guide and Related Systems Plans

This Transportation Policy Plan is based on the regional comprehensive development guide and plan, *Thrive MSP 2040*, that the Council is required by state law (Minn. Stat. 473.145) to prepare every 10 years for Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties. *Thrive MSP 2040* provides a policy framework for regional systems plans for water resources, regional parks, housing, and transportation. The Transportation Policy Plan also fulfills state requirements for land transportation and aviation plans (Minn. Stat. 473.146), and incorporates and supports state goals from the Next Generation Energy Act (Minn. Stat., sec 216H.02) to reduce greenhouse gas emissions.

Mandated Federal Metropolitan Transportation Plans

The Transportation Policy Plan fulfills all requirements in federal law (23 USC §134 and 49 USC §5303) for a Metropolitan Planning Organization for a region in air quality maintenance status to prepare and update a metropolitan transportation plan at least every four years. The plan also conforms to all air quality-related requirements for metropolitan transportation plan content and development in the Clean Air Act (42 USC §85).

In addition, the 2010 Census identified urbanized (developed) areas of Wright and Sherburne counties (primarily along the I-94 and U.S. Highway 10 corridors) as part of the Minneapolis-Saint Paul urbanized (developed) planning area. Federal transportation law therefore required that those areas be included in this plan, though these areas are not otherwise a part of the Metropolitan Council’s jurisdiction, which includes Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties.

The preparation of this report has been funded in part by the U.S. Department of Transportation, Federal Highway Administration, and Federal Transit Administration. The contents of this document reflect the views of the authors who are responsible for the facts or accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the U.S. Department of Transportation. The report does not constitute a standard, specification, or regulation.
The Council’s mission is to foster efficient and economic growth for a prosperous metropolitan region.

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The Metropolitan Council is the regional planning organization for the seven-county Twin Cities area. The Council operates the regional bus and rail system, collects and treats wastewater, engages communities and the public in planning for future growth, coordinates regional water resources, plans and helps fund regional parks, and administers federal funds that provide housing opportunities for low- and moderate-income individuals and families. The 17-member Council board is appointed by and serves at the pleasure of the governor.

On request, this publication will be made available in alternative formats to people with disabilities. Call Metropolitan Council information at 651-602-1500 or TTY 651-291-0904.