



TABLE OF CONTENTS

DIRECTOR'S MESSAGE	1
TABLE OF CONTENTS	2
TABLE OF FIGURES	4
1. INTRODUCTION	5
Connection to the Planning Framework	5
Connection to MoDOT Long Range Transportation Plan (LRTP)	
Study Organization	
Planning Process	8
Goals and Objectives	8
Goal 1: System Preservation and Safety	9
Objectives	9
Goal 2: Access and Mobility	9
Objectives	9
Goal 3: Sustaining the Environment	9
Objectives:	
Goal 4: Partnerships	10
Objectives:	
Goal 5: Local Outreach	
Objectives:	. 10
2. TRENDS AND CONDITIONS	. 11
Population Growth Trends	
Population Distribution	
Components of Change	
3. EXISTING TRANSPORTATION FACILITIES	
State Highways	
Nationwide Connections	
Statewide Connection	
4. TRANSPORTATION MANAGEMENT	
Bridge Management System – this system includes:	
Bridge/Culvert Rating Description	
Traffic Management System	
Traffic Data Acquisition System	
Congestion Management	
Transportation Demand Management (TDM)	
Signalized Intersection Management	
Safety Management System	
Travelways Management System	23

Functional Classification and Access Management	23
Pavement Management System	
Additional Business Areas with TMS include the following:	30
Outdoor Advertising	30
Routine Maintenance	30
Intelligent Transportation System	30
SIMS	30
State of the System	30
Traffic Permitting for Right-of-Way	30
Traveler Information System	31
The following is a list of newer applications in TMS:	
Stormwater	31
Local Program Application (LPA) Locations	
Emergency Operations Map	31
TMS Data Zone	31
5. NEEDS IDENTIFICATION	32
Surveys	
County Meetings	
Prioritization	
6. FUTURE PROJECT PLAN	36
7. FINANCE	36
7.1 Federal Funding Sources	36
Infrastructure Investment and Jobs Act	36
7.3 Funding Tools for the Local or Regional Level	47
FAA Airport and Airway Trust Fund (AATF)	55
8. PLAN IMPLEMENTATION	60
Environmental Justice	
Social and Economic Impacts	
Conclusion	
Transportation Demand Management	
USDOT	
United States Department of Transportation	
VMT	
Vehicle Miles Traveled	
Abbreviation Key	71

TABLE OF FIGURES

Figure 1.1 SMCOG and OTO Boundaries	7
Table 4-1: VMT and Mileage Guidelines by Functional Classifications - Arterials	24
Figure 7.1 MoDOT Funding Distribution for Construction Funds Error! Bookmark not	defined.
Table 7.1 MoDOT Funding Distribution - Total by District (\$ Millions) Error! Book	mark not
defined	

1. INTRODUCTION

Connection to the Planning Framework

In 2003, the Missouri Department of Transportation (MoDOT) initiated a new planning framework that would be more transparent and elicit a greater amount of public participation in creating a vision for the future transportation network in the State of Missouri. In order to achieve these goals, MoDOT established partnerships with local officials around the state using Metropolitan Planning Organizations and Regional Planning Commissions (RPCs) as a conduit to develop a statewide vision when appropriate. RPCs are the vehicle through which cities and counties in Missouri's rural areas come together to work on common transportation issues. State statutes govern the formation and function of RPCs, whose boards of directors are comprised of local officials or their designees. Each RPC also has a Transportation Advisory Committee (TAC), whose membership is appointed by the board of directors. TACs provide a link to citizen involvement through local officials and stakeholders who represent the constituents of rural Missouri. MoDOT coordinates with RPCs to determine regional priorities for transportation. This improved planning process MoDOT exceeds federal and state legal requirements for involving local officials and the public in the planning and decision-making process (MoDOT – Transportation Planning – Planning Framework p.5 March 2004).

Connection to MoDOT Long Range Transportation Plan (LRTP)

The Regional Transportation Plan (RTP) is a comprehensive, performance based, multi-modal and coordinated regional plan, which develops a basis for future needs by using existing population, employment, and land use data to identify trends critical for the development of accurate forecasts and projections on growth and development that will guide future transportation improvements. The RTP covers all modes of transportation from a regional perspective, including freeways/highways, streets, public mass transit, airports, bicycle and pedestrian facilities, goods movement and special needs transportation. In addition, the RTP addresses key transportation related activities, such as transportation demand management, transportation management systems, safety, environmental justice, and equity issues between disparate social groups. As the authorized RPC for a 10 county region in the State of Missouri, the Southwest Missouri Council of Governments (SMCOG) is responsible for the development of the RTP for the transportation network within its membership boundaries. The purpose of this document is to submit the transportation needs for this region to MoDOT for inclusion in the State Transportation Improvement Program (STIP) and the State's Long Range Transportation Plan (LRTP). The STIP includes near term projects while the LRTP deals with projects scheduled over 7-10 years.

Study Organization

The Southwest Missouri Council of Governments (SMCOG) was established in April of 1989 in accordance with state statutes as the authorized Regional Planning Commission for a ten county region in Southwest Missouri, including the five counties of the Springfield Metropolitan Statistical Area. The SMCOG jurisdictional boundary includes 77 incorporated villages and cities within the adjacent counties of Barry, Christian, Dade, Dallas, Greene, Lawrence, Polk, Stone, Taney and Webster. SMCOG is one of 19 active regional planning commissions in the state. As the authorized

RPC for a 5,986 square mile area with wide variability in local characteristics, it is SMCOG's mission to enhance the quality of our communities through regional cooperation. One of the main services SMCOG offers is transportation planning to local governments and advisory services to area transportation advisory boards and coalitions. SMCOG also provides coordination with the Missouri Department of Transportation (MoDOT).

Within the SMCOG region is the Ozarks Transportation Planning Organization (OTO), as shown in Figure 1.1. This group is the Metropolitan Planning Organization (MPO) covering portions of Greene and Christian Counties. Declared a Transportation Management Area (TMA) by the U.S Department of Transportation after the 2000 Census, OTO gained the benefit of local authority to select transportation projects. According to the Federal Highway Administration, TMAs are "areas designated by the U.S. Secretary of Transportation, having an urbanized area population of over 200,000, or upon special request from the governor and the MPO, or under special circumstances designated for the area. In addition to meeting all the federal requirements for an urbanized area and MPO, TMAs are also responsible for developing congestion management systems, Transportation Improvement Program (TIP) project selection, and are subject to a joint federal certification review of the planning process at least every three years." Due to this designation, the RTP will not be able to make recommendations for the transportation network within OTO's boundaries. At the same time, though, it would be remiss if this plan did not include a discussion of the major thoroughfares in the region that reside within those boundaries. One goal of this plan is to balance the relationship between the outlying areas of the SMCOG region and the use of the road network within OTO's jurisdiction.

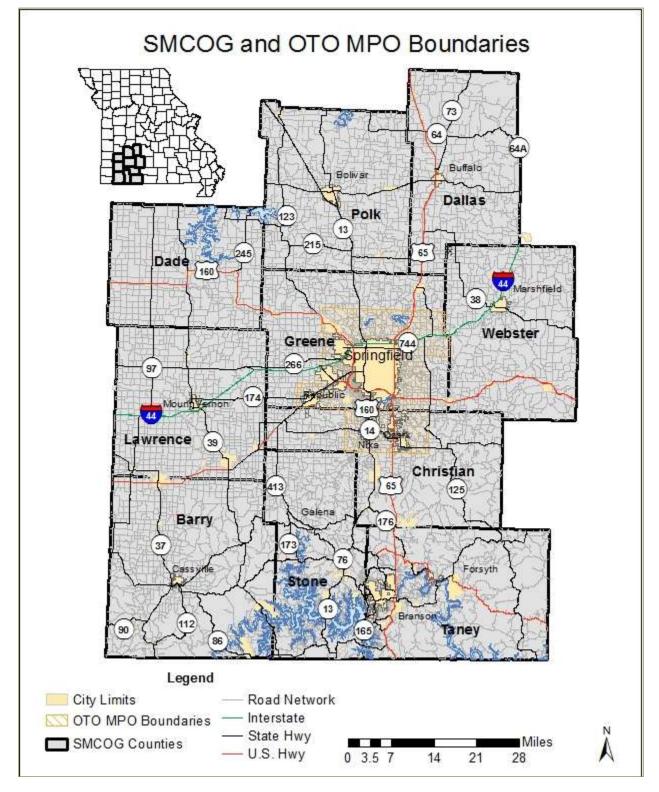


Figure 1.1 SMCOG and OTO Boundaries

Planning Process

MoDOT's goal of incorporating public participation from local officials and regional organizations into a statewide vision for Missouri's transportation network has occurred in a phased approach. Phase One required the establishment of a Transportation Advisory Committee, joining MoDOT in public transportation meetings, assisting MoDOT in the public participation process, and keeping MoDOT informed of transportation issues in their region, while considering all modes of transportation. SMCOG did some preliminary work on regional transportation activities, but did not fully participate in Phase 1. After some restructuring in the mid-1990s, MoDOT proposed to include RPCs in the needs evaluation and project prioritization process, leading to Phase 2. Phase 2 gave the RPCs increased funding and responsibilities including, an evaluation process of transportation needs, a public involvement process, development of regional data, and professional staff development. SMCOG began full participation of Phase 2 in 1996.

The Missouri Association of Councils of Governments (MACOG) formed a working group to develop a common outline for this plan. Over the course of several meetings and conference calls, the content of the plan was developed. SMCOG staff then compared these elements with plans from other regional planning organizations across the country, and further developed the outline for a regional transportation plan befitting the SMCOG region.

The development of the RTP itself occurs in phases as well. Phase 1 includes the development of a regional plan for the state-maintained roads in Missouri. These include the interstates of the National Highway System, state highways, and the lettered county roads. Phase 2 is the continuation of the plan onto county roads and those city roads for which data exists. Phase 3 finalizes the plan by filling in the gaps for local roads.

Public input has been an important aspect in the development of the SMCOG Regional Transportation Plan. The Transportation Advisory Committee provides a great deal of input from stakeholders and elected officials through frequent meetings and the formation of workgroups. SMCOG staff has also pursued a proactive outreach philosophy by meeting with individual employees and officials of member communities in order to develop a rich picture of transportation issues at the local level. SMCOG also maintains a website where information pertaining to ongoing projects is available to the public as well as feedback mechanisms such as downloadable surveys and electronic mail.

Goals and Objectives

It is the overarching goal of the SMCOG RPC to create a Regional Transportation Plan that represents an accurate depiction of current and projected population, employment, and land use trends. These data and public involvement will enable us to achieve a clear picture of the future needs of a transportation system for southwest Missouri that balances environmental quality, economic vitality, and equitable accessibility for all segments of the population. Diligence in this matter is imperative to the development of a sustainable transportation network for the SMCOG subregion and the State of Missouri for the 21st century and beyond. With this in mind, the following goals and objectives where developed specific to the region served by the Southwest Missouri Council of Governments.

Goal 1: System Preservation and Safety

Transportation infrastructure that is properly maintained and safe, preserving past investments for the future.

Objectives:

- Provide for the continuing preservation and maintenance needs of transportation facilities and services in the region
- Promote and encourage transportation resiliency to prepare the region for the future and reduce the impact of natural or manmade emergencies and disasters.
- Provide a safe and secure environment for the traveling public, addressing roadway hazards as well as pedestrian and bicycle safety
- Create an inventory of critical infrastructure
- Integrate resiliency into planning and project development
- Encourage development of a transportation system, which can safely and efficiently accommodate unusual and unpredictable conditions.
- Promote transportation improvements, facility design and construction standards that withstand extreme demands and unexpected conditions.

Goal 2: Access and Mobility

Transportation systems and services that provide accessibility, mobility and modal choices for residents, businesses and the economic development of the region.

Objectives:

- Maintain an acceptable and reliable level of service on transportation and mobility systems serving the region, taking into account performance by mode and facility type
- Provide residents of the region with access to jobs, shopping, educational, cultural, and recreational opportunities and provide employers with reasonable access to the workforce in the region
- Maintain a reasonable and reliable travel time for moving freight into, through and within
 the region, as well as provide high-quality access between intercity freight transportation
 corridors and freight terminal locations, including intermodal facilities for air, rail and
 truck cargo
- Provide the people of the region with transportation modal options necessary to carry out their essential daily activities and support equitable access to the region's opportunities
- Address the needs of the elderly and other population groups that may have special transportation needs, such as non-drivers or those with disabilities
- Plan and develop temporary and accessible pedestrian facilities to improve connectivity in the event of an emergency situation.

Goal 3: Sustaining the Environment

Transportation improvements that help sustain our environment and quality of life.

Objectives:

- Identify and encourage implementation of mitigation measures that will reduce noise, visual and traffic impacts of transportation projects on existing neighborhoods
- Encourage programs and land use planning that advance efficient tripmaking patterns in the region
- Make transportation decisions that are compatible with air quality conformity and water quality standards, the sustainable preservation of key regional ecosystems and desired lifestyles

Goal 4: Partnerships

Coordinate the regional transportation planning effort in partnership with MoDOT and represent the region in the development of state wide planning and prioritization processes.

Objectives:

- Encourage development of statewide corridors serving the region.
- Bring together elected officials and staff from cities and counties to foster regional cooperation in transportation planning

Goal 5: Local Outreach

Promote and encourage public involvement in local, regional and statewide transportation planning.

Objectives:

- Monitor legislative and regulatory issues that impact transportation.
- Educate the citizens of the region on transportation issues and encourage their input.
- Improve the ability to communicate with transportation users.
- Encourage regional coordination as part of long range transportation planning to include interdependent sectors and stakeholders.

2. TRENDS AND CONDITIONS

Population Growth Trends

According to the 2020 Census, the Southwest Missouri Council of Governments area population was 642,678 people. The overall population growth of the region from 2000 to 2010 was 6.63% percent, a significant decline in the growth rate from the previous decade's 17.28%. This decline may be attributable to the pandemic which affected population between 2019 and 2020. Although all ten counties have historically shown positive population growth in the past decade, except Barry, Dade, Lawrence, and Stone Counties which experienced a population decline between 2010 and 2020. SMCOG's planning area is large therefore it has a great deal of intra-regional variation. Substantial growth continues to occur in the northern portion of Christian County due to rapid development in and around Nixa and Ozark, although, this growth has declined significantly from the previous decade. In 2020, Christian County ranked as one of the fastest growing counties with a population growth rate of 14.75% between 2010 and 2020. That rate of growth has declined from the 42.60% change between 2000 and 2010.

In-migration around Branson continues to drive population growth especially in Taney and surrounding counties. While this increase has declined from that of the previous decade to 8.50% population change between 2010 and 2020. Greene and Webster counties continue to have significant growth rates of 8.63% and 7.96%, respectively. Both Dallas and Polk counties had a steady population growth between 2010 and 2020. Barry, Dade, Lawrence, and Stone counties experienced a loss in population during the 2010 to 2020 time period. **Table 2.1** summarizes changes in the population of the Southwest Missouri Counties from 1980 to 2020. Although there was appreciable growth from 1980 to 1990, population growth trends throughout the region accelerated from 2000 to 2010 and slightly increased from 2010 to 2020 due to the pandemic which attributed to changes in population.

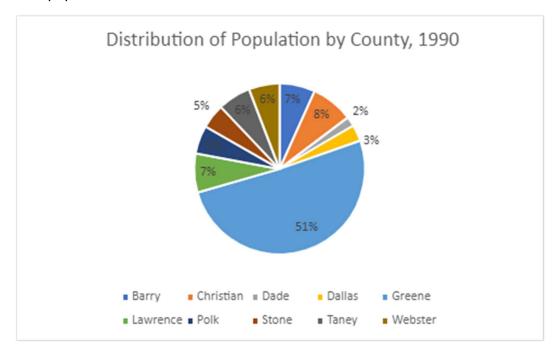
Table 2.1 Southwest Missouri Population Growth, 1980 – 2020 and Change 2010-2020							-2020
County	1980	1990	2000	2010	2020	Change 2010- 2020	% Change 2010-2020
Barry	24,408	27,547	34,010	35,597	34,534	-1,063	-2.99%
Christian	22,402	32,644	54,295	77,422	88,842	11,420	14.75%
Dade	7,383	7,449	7,923	7,883	7,569	-314	-3.98%
Dallas	12,096	12,646	15,661	16,777	17,071	294	1.75%
Greene	185,302	207,949	240,391	275,174	298,915	23,741	8.63%
Lawrence	28,973	30,236	35,204	38,634	38,001	-633	-1.64%
Polk	18,822	21,826	26,992	31,137	31,519	382	1.23%

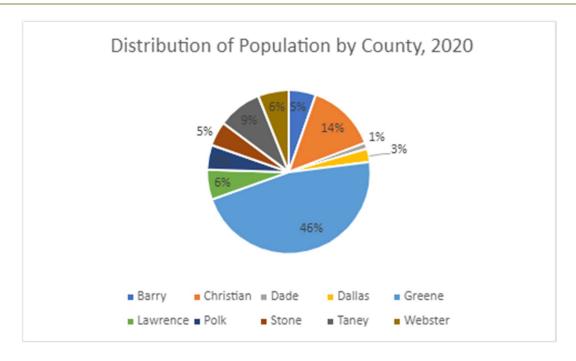
Stone	15,587	19,078	28,658	32,202	31,076	-1,126	-3.50%
Taney	20,467	25,561	39,703	51,675	56,066	4,391	8.50%
Webster	20,414	23,753	31,045	36,202	39,085	2,883	7.96%
SMCOG	355,854	408,689	513,882	602,703	642,678	39,975	6.63%
Missouri	4,916,686	5,117,073	5,595,211	5,988,927	6,154,913	165,986	2.77%

Source: U.S. Bureau of the Census.1990 Census of Population and Housing; Census 2000; Census 2010; Census 2020

Population Distribution

Figures 2.3 and **2.4** use the data presented in **Table 2.1** to demonstrate a seemingly slight but significant redistribution of the area population from 1990 to 2020 in terms of each county's share of the overall population.





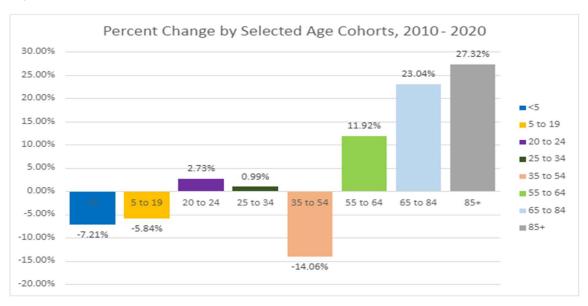
In 1990, Greene County was home to over half of the population in the SMCOG region. This is indicative of Springfield's preeminence as a central place for employment and services in the region and the predominantly rural character of the outlying counties. Greene County is growing but at a slower rate than some of the surrounding counties. By 2020, Greene County's share of the regional population decreased to 46 percent. The preceding decades marked an era of decentralization as the attractiveness of other places in the region have grown in terms of job growth, recreation, shopping, and quality of life. Specifically, the counties of Christian, Lawrence, Taney, and Webster have taken on a greater proportion of population growth in terms of regional share.

Components of Change

Table 2.2 depicts the drivers of population change. Natural Increase (NI) is simply the difference between newborns added to the population and the number of deaths occurring during the same period. The majority of counties in the region show a slow moving trend in natural increase slightly above or, as in the case of Dade and Stone Counties, below population replacement levels. This is indicative of top-heavy age structures and aging rural populations. Webster and Christian had the largest natural increase at 7.41 percent and 6.98 percent respectively. While these percentages are significant in identifying younger age groups and the attractiveness of certain places in terms of family-oriented lifestyles, they do not necessarily explain the extent of population growth in the region.

Jurisdiction	Births	Deaths	Natural Increase (NI)	% Change due to NI	Net Migration (NM)	% Change due to NM
Barry Co.	4,574	4,663	-89	-0.26%	-148	-0.43%
Christian Co.	11,273	7,047	4226	4.76%	738	0.83%
Dade Co.	770	1,188	-418	-5.52%	8	0.11%
Dallas Co.	2,299	2,225	74	0.43%	19	0.11%
Greene Co.	38,238	30,990	7,248	2.42%	1,617	0.54%
Lawrence Co.	5,470	5,145	325	0.86%	-133	-0.30%
Polk Co.	4,262	3,974	288	0.91%	16	0.05%
Stone Co.	2,828	4,353	-1,525	-4.91%	37	0.12%
Taney Co.	6,909	6,319	590	1.05%	333	0.59%
Webster Co.	6,086	3,723	2,363	6.05%	71	0.18%
Total	82,709	69,627	13,082	2.04%	2,579	0.40%

Source: Missouri Department of Health – Births and Deaths MICA, Missouri Census Data Center – Single-County IRS Migration Profile



From 2010 to 2020, all counties except Barry, Dade, and Stone experienced positive, if modest, NI, with Webster County showing the strongest growth at 6.05 percent. Similarly, all counties except Barry and Lawrence experienced positive, modest increases in NM, with Christian County growing the fastest at 0.83 percent. The overall trends indicate that the region is experiencing modest growth due to both NI and NM.

3. EXISTING TRANSPORTATION FACILITIES

State Highways

Nationwide Connections

EAST/WEST CORRIDORS

Interstate 44: This Interstate runs entirely across the central portion of the region. It serves as the primary transportation route from the Southwest Missouri region to the St. Louis metropolitan area in the northeast, and to Oklahoma City, OK in the southwest. It passes by four communities of the region, including Marshfield, Strafford, Springfield, and Mount Vernon. Interstate 44 is a limited access, multilane divided freeway with 25 access points in the region. It is the main road in the area and carries high volumes of cars and trucks. MoDOT data from 2020 shows an Annual Average Daily Traffic (AADT) that varies from 12,881 vehicles entering the area in Webster County to 18,469 within the City of Springfield in Greene County and 11,976 vehicles exiting the area in Lawrence County. There is a rest area located just south of the northern Webster County line and one located just inside the eastern border of Lawrence County.

US 60: Linking the area with Tulsa, OK in the southwest and Louisville, KY in the northeast US 60 also links 4 counties and 10 communities within the region. In the eastern section within Webster and Greene County, Highway 60 is a four-lane divided highway with vehicle traffic volumes from 8,213 in Webster County to 15,810 in Greene County. Within the City of Springfield, Greene County, this highway has been upgraded to a freeway with 7 access points and carries traffic volumes as high as 34,052 vehicles per day. The western section in Christian and Lawrence County is a two-lane undivided highway with traffic volumes of around 5,964 vehicles per day in Christian County and 4,078 in Lawrence County.

US 160: Highway 160 connects the Southwest Missouri area to the southeast of the country through the southern portion of Kansas and Colorado and the northern part of Arizona. It is another significant east-west connector, linking 5 of the 10 counties of the area, and eight communities. Highway 160 is a two-lane facility except in the cities of Springfield, Nixa, and Willard where it has been upgraded to four lanes. It has shoulders in most areas of the region except in Taney County where the terrain is hilly. It is the main route connecting the cities of Springfield and Nixa, and it is in this section of the road that it presents the highest traffic volume of 13,538 vehicles per day. Other sections around Willard, Highlandville, Spokane, and Forsyth encompass traffic volumes on average 4,193 cars per day. This highway has lower traffic volumes in the rural areas in Dade, Stone, and Taney Counties.

NORTH/SOUTH CORRIDORS

US 65: US 65 is the primary north-south arterial of the region and connects the region to Des Moines, IA in the north and to Little Rock, AR in the south. Highway 65 also provides a linkage for the eastern section of the area with other major routes, including Interstate 44 and Highway 60. It crosses over four counties and eight communities in the region. It is a critical route for the movement of the resident population to the Springfield MSA and the Branson Area. Two sections of this highway constitute a two-lane limited-access undivided highway with lower traffic volumes

that fluctuate between 3,068 and 21,446 AADT. These sections are from the northern boundary of the area to just south of Buffalo, the most southern section, from Branson's city limits to the border with Arkansas. The section between Springfield and Branson is limited access, multilane divided freeway, and has 13 access points. This section involves higher traffic volumes of as high as 37,162 vehicles and 10,123 trucks per day in the south section of Greene County Springfield Area, 19,103 vehicles per day in Christian County, and 11,735 vehicles and 3,268 trucks per day in Taney County Branson Area.

Statewide Connection

EAST/WEST CORRIDORS

MO 14: This is the primary east-west traffic route through Christian County. This two-lane undivided highway connects the cities of Billings, Clever, Nixa, Ozark, and Sparta. It carries high traffic volume in the section that corresponds to the MPO area, in Nixa and Ozark with average AADT of 6,383 and 5,596 respectively, and lower volumes west of Clever (1,044 AADT) and east of Sparta (2,641 AADT).

MO 32: It serves as the primary east-west route for the northern portion of the region, connecting the communities of Fair Play, Bolivar, Halfway, Buffalo, and Long Lane in Polk and Dallas County. This two-lane undivided highway has traffic volumes in the city of Bolivar (3,466 AADT), decreasing considerably as they go farther to the east and the west of this area in Fair Play (2,247 AADT) and Long Lane (695 AADT) respectively.

MO 38: It connects Marshfield and other small rural communities from Webster and the southern section of Dallas County to I-44 to US 65. It is a two-lane undivided highway with peak traffic volumes in the city of Marshfield as high as 10,413 and an average AADT of 5,272. Low traffic volumes of 614 and 1,113 AADT in the rural areas.

MO 76: It serves as the primary east-west route for the southern portion of the region, connecting 11 communities in Barry, Stone, and Taney Counties. It is one of the main routes in the lakes area linking Reeds Springs, Branson West, Branson, and Forsyth. It has a major concentration of tourist attractions in the Branson area, which makes it very congested. Highway 76 is a two-lane undivided facility, and it lacks shoulders in most areas, especially where the terrain is hilly. Traffic levels have dipped in the Branson area (7,732 AADT), Branson West (5,538 AADT), decreasing considerably as they go farther to the east and the west of this area in Brownbranch (321 AADT) and Ridgeley (895 AADT) respectively. Truck volumes in 2020 were 2,163 between Branson and Branson West in Stone County, 550 between Ridgeley and Cassville in Barry County, and 1,319 between Branson and Forsyth in Taney County.

4. TRANSPORTATION MANAGEMENT

TMS is MoDOT's Transportation Management Systems software that was first implemented back in 1998. At that time, TMS consisted of four major business areas, which included Safety, Traffic, Bridge and Pavement.

Over the years, TMS has expanded to meet the needs of many business units and users. We continue to build applications and tools that assist MoDOT and our partners with decision making. Most TMS applications/maps are available from the TMS Homepage: http://tms/home/. Many of our Metropolitan Planning Organization/Regional Planning Commission (RPC) partners access TMS by using a virtual machine and logging into the MoDOT network.

TMS originated with business areas of Bridge, Pavement, Traffic and Safety but has expanded tremendously over the years.

Bridge Management System - this system includes:

- Inventory Management
- Media Loader

TMS is the single source for all bridge data in the department. The bridge part of the system includes National Bridge Inventory (NBI) data, inspection information, as well as media for that structure. Media could include things such as photographs, plans, correspondence, inspection reports, and other data related to a bridge.

MoDOT personnel inspect state maintained bridges and culverts and the majority of all of the locally owned (referred to as non-state) bridges and culverts. A small portion of non-state bridges and culverts are inspected by local agency staff or consultant engineers. All bridges and culverts that are part of the NBI are required to have a general inspection done on a two-year inspection cycle. In addition to the general inspection, some structures require fracture critical inspections, underwater inspections, or special inspections to look at specific items. Intervals for these other inspections vary depending on what is being looked at. Structures that are in "poor" or "serious" condition may have inspections done at more frequent intervals.

Bridge and culvert condition ratings have been supplied to the RPCs for the development of their Regional Transportation Plans (RTPs). This data is being provided for the purpose of assisting the RPCs and MoDOT in identifying local needs and priorities for a region. These condition ratings are assessed by inspectors when the various types of inspections are done on a structure. These condition ratings basically describe the in-place condition of a structure. Ratings are assigned for the physical condition of the deck, superstructure and substructure components of a bridge and an overall rating is assigned for culvert structures.

The deck is the portion of the bridge that includes the riding surface. The superstructure is the girders and other span elements of the bridge that support the deck. These superstructure elements may be comprised of structural steel, concrete or timber, depending on the design of the bridge. The substructure is comprised of those elements of the structure that support the superstructure (girders, span elements, etc.). The substructure elements are the columns, footings and beam caps that the

girders rest on. The deck, superstructure and substructure are rated independently; however, the lowest rating of the three is traditionally what is considered the overall rating for a structure. Culverts are typically buried structures built out of concrete or steel. An overall condition rating is assigned for a culvert and takes into account how all of the different elements of the structure are functioning.

The following general condition ratings are used as a guide in evaluating the deck, superstructure, substructure and overall culvert.

Bridge/Culvert Rating Description

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION no problems noted.
- 7 GOOD CONDITION some minor problems.
- 6 SATISFACTORY CONDITION structural elements show some minor deterioration.
- 5 FAIR CONDITION all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.
- 4 POOR CONDITION advanced section loss, deterioration, spalling or scour.
- 3 SERIOUS CONDITION loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.
- 2 CRITICAL CONDITION advanced deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present or scour may have removed substructure support. Unless closely monitored, it may be necessary to close the bridge until corrective action is taken.
- 1 IMMINENT FAILURE COND major deterioration or section loss present in critical structural components or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic, but corrective action may put back in light service.
- 0 FAILED CONDITION out of service beyond corrective action.

Traffic Management System

Traffic Data Acquisition System

Previously, traffic data was collected by a variety of methods. All traffic data reporting was done on the mainframe system. With the acquisition of Traffic Data Acquisition System (TRADAS), all traffic data is collected and processed uniformly. The traffic data collected includes such items as traffic volumes (both vehicular traffic and truck traffic), Level of Service (LOS) (congestion condition) and vehicle classifications. This data is used to understand traffic patterns and identify locations of need.

Inventories in the Traffic Management System include:

- Flasher Inventory
- Lighting Inventory
- Signal Inventory
- District Defined Types
- Highway Capacity Interface
- Site ID Maintenance
- Traffic Information Segment Maintenance
- Traffic Segment Hourly Volume

Congestion Management

Traffic congestion and travel delay are among the most visible signs of transportation problems. Drivers experience congestion for the most part as a personal annoyance, although traffic congestion is a problem that wastes time, consumes energy resources and contributes to poorer air quality.

Traffic congestion in the urban area is typically confined to the morning and evening peak hours of travel. Delays from congestion occur on roadways with inadequate capacity or at specific locations such as interstate ramps and signalized intersections.

Congestion in the rural area can occur at any time when the roadway is unable to handle the traffic flow. This can be related to peak hours of travel, including work and holiday travel. It can also be because the typical two-lane roadway is restricted and traffic is unable to flow freely, often times because of incidents or slow moving vehicles.

Expanding the capacity of roadways is not the sole solution to congestion. The new roadways, bridges, and highways built to relieve congestion satisfy latent and shifted demand for travel. The use of alternate modes, land use regulation, access management, and improvements to intersections and traffic signals can all contribute to an overall program to manage traffic congestion.

There are two major methods of gauging congestion: facility-based measures and travel time. The facility-based congestion method focuses on the road itself and usually is based on traffic volume and capacity comparisons. Such comparisons may include volume-to-capacity ratios and traffic volume per lane mile. The travel time method of measuring congestion indicates the same conclusion, however. These trip-based measures are tied to the individual traveler's congestion problems and oriented to the length of the trip. Average travel time to work is an example of one such measure.

A number of indicators may be used to gauge and manage congestion. These are divided into four categories.

1. Facility-based measures:

- Average vehicle speed in peak hour
- Ratio between peak volume & nominal capacity (V/C)
- Total vehicle hours of delay
- Proportion of daily travel by speed or V/C range
- Frequency and duration of incidents
- Average daily traffic (ADT) per freeway lane

2. Personal travel effects:

- Proportion of personal travel by speed range
- Delay added to average person's trips by time of day, travel purpose
- · Delay added to average person's trip by place of residence
- Delay to transit vehicles
- Number of crashes due to congestion

3. Effects on the economy:

- Delay added to average commuter trip by place of work
- Percentage of truck travel by speed or V/C range
- Vehicle hours of delay to trucks/delivery vehicles
- Truck scheduling costs attributable to travel time uncertainty
- · Market perceptions of congestion as an influence on economic activity

4. Environmental impacts:

- Extra vehicle emissions due to stop-and-go conditions
- Extra gas consumption due to stop-and-go conditions

LOS is defined as conditions within a traffic stream as perceived by the users of a traffic facility. MoDOT's Transportation Management System provides LOS information in the Traffic Segment Browser. In practice, LOS has been defined by measures of effectiveness for each facility type, relating more to speed, delay and density than to qualitative factors or safety. LOS is rated A, representing the best operating condition, to F, representing the worst. The following describes LOS according to the Highway Capacity Manual.

LOS A describes primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at the boundary intersections is minimal. The travel speed exceeds 80% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.

LOS B describes reasonably unimpeded operations. The ability to maneuver within the traffic stream is only slightly restricted, and control delay at the boundary intersections is not significant. The travel speed is between 67% and 80% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.

LOS C describes stable operation. The ability to maneuver and change lanes at mid-segment locations may be more restricted than at LOS B. Longer queues at the boundary intersections may contribute to lower travel speeds. The travel speed is between 50% and 67% of the base free-flow speed, and the volume-to-capacity ratio is greater than 1.0.

LOS D indicates a less stable condition in which small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression, high volume, or inappropriate signal timing at the boundary intersections. The travel speed is between 40% and 50% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.

LOS E is characterized by unstable operation and significant delay. Such operations may be due to some combination of adverse progression, high volume, and inappropriate signal timing at the boundary intersections. The travel speed is between 30% and 40% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.

LOS F is characterized by flow at extremely low speed. Congestion is likely occurring at the boundary intersections, as indicated by high delay and extensive queuing. The travel speed is 30% or less of the base free-flow speed or the volume-to-capacity ratio is greater than 1.0.

Transportation Demand Management (TDM)

This is a strategic response to roadway capacity deficiencies that involves the construction of new or expanded roadways. TDM actions are calculated to reduce vehicle demand by increasing vehicle capacity or providing an alternate mode. While new construction is the most direct and effective practice to eliminate congestion, this approach may not offer a complete solution. A variety of strategies is available to reduce congestion and may include methods to increase vehicle occupancy and promote alternative modes of transportation. Approaches may include:

- Ridesharing programs, local and regional.
- Transportation management associations which coordinate opportunities and incentives for a shared travel, usually through employers or business associations.
- Cash-out parking subsidies which allow employees to convert employer paid parking subsidies to transit subsidies or cash.
- d. Restricted availability and/or increased parking cost for single occupancy vehicles.
- e. Mixed use development of walking, cycling and transit alternatives.

- f. Transportation enhancements projects such as improved bicycle paths and pedestrian facilities to improve choices available to commuters.
- g. Staggered/flexible work hours to more evenly distribute the number of commuters.
- h. Telecommuting and home-based businesses.
- i. Electronic commerce that allows personal and business transactions electronically without physically making a trip.

Signalized Intersection Management

Signalized intersections may be necessary to allow the safe movement of vehicles through intersecting roadways. However, there is a physical limit to the number of through movements and turning movements that can be safely accommodated by a signalized intersection. When the demand for any movement at the intersection exceeds the available capacity, congestion and delays ensue, reducing the average travel speed and increasing the travel time. Roundabouts can also be constructed to facilitate the safe movement of vehicles through intersecting roadways. In some cases, roundabouts can accommodate traffic volume and movements more efficiently than traffic signals.

Safety Management System

Traffic crashes are entered into TMS by staff at the Missouri State Highway Patrol (MSHP). The crashes in the database date back to 1985, and crash images date back to 1997. MSHP enters fatal crashes into the database within 10 days of the crash. Crash data is utilized to identify where crashes occur and includes other information such as type of crash, contributing circumstances and severity of the crash. Applications in this system include:

- Crash Summary
- Crash Browser
- Intersection Expected Crash Values
- Statewide Average Crash Rates

Travelway Safety Features – this includes inventories for:

- Guardcable
- Rumblestrips
- Concrete Barrier
- Guardrail
- Soundwall
- Emergency Reference Markers
- Curfews
- Points of Interest
- Controlled Routes

Travelways Management System

The travelways management system includes applications to manage the following data:

- Asset Management (Functional class, speed limit, access category, federal system class, etc.)
- Travelway Overlapping Browser
- Location Referencing System (Travelway Selection)
- Travelway Lane Inventory

Functional Classification and Access Management

Functional classification (FC) is the process by which streets and highways are grouped into classes or systems according to the character of service they provide. FC defines the nature of this process by defining the part that any particular road or street should play in serving the flow of trips through a highway network.

Federal legislation requires the FC of roadways to determine the funding eligibility of transportation projects.

Urban and rural areas have fundamentally different characteristics as to density and land use, density of street and highway networks, nature of travel patterns and the way in which all of these elements are related in the definitions of the highway classifications.

There are three such area definitions, and they are the following:

AREA DEFINITIONS

Small Urban—Areas designated by the Bureau of the Census having a population of 5,000 (5,000 to 49,999).

Urbanized—Designated as such by the Bureau of the Census with a population of 50,000 or more.

Rural—comprise the areas outside the boundaries of small urban and urbanized.

There are three principal roadway classifications: arterial, collector and local roads. All highways and streets are grouped into one of these classes, depending on the character of the traffic and the degree of land access they allow.

The following information was taken from FHWA's website at

https://www.fhwa.dot.gov/planning/processes/statewide/related/highway_functional_classifications/section03.cfm.

To assist transportation planners responsible for determining the FC of roadways, the charts below offer a helpful tool that can make the classification process of classifying "borderline" roadways a bit easier. **Table 4-1** illustrates the range of lane width, shoulder width, AADTs, divided/undivided status, access control and access points per mile by FC categories.

Table 4-1: VMT and Mileage Guidelines by Functional Classifications - Arterials

	Arterials	Arterials					
	Interstate	Other Freeways & Expressway	Other Princi Arterial	pal	Minor Arterial		
Typical Characteristics							
Lane Width	12 feet	11 - 12 feet	11 - 12 feet		10 feet - 12 feet		
Inside Shoulder Width	4 feet - 12 feet	0 feet - 6 feet	0 feet		0 feet		
Outside Shoulder Width	10 feet - 12 feet	8 feet - 12 feet	8 feet - 12 feet		4 feet - 8 feet		
AADT ¹ (Rural)	12,000 - 34,000	4,000 - 18,500 ²	2,000 - 8,500 ²		1,500 - 6,000		
AADT¹ (Urban)	35,000 - 129,000	13,000 - 55,0002	7,000 - 27,000²		3,000 - 14,000		
Divided/Undivided	Divided	Undivided/Divided	Undivided/Divided		Undivided		
Access	Fully Controlled	Partially/Fully Controlled	Partially/Uncontrolled		Uncontrolled		
Mileage/VMT Extent (Percentage Ranges) ¹							
Rural System							
Mileage Extent for Rural States ²	1% - 3%	0% - 2%	2% - 6%	2% - 6%			

Mileage Extent for Urban States	1% - 2%	0% - 2%	2% - 5%	3% - 7%
Mileage Extent for All States	1% - 2%	0% - 2%	2% - 6%	3% - 7%
VMT Extent for Rural States ²	18% - 38%	0% - 7%	15% - 31%	9% - 20%
VMT Extent for Urban States	18% - 34%	0% - 8%	12% - 29%	12% - 19%
VMT Extent for All States	20% - 38%	0% - 8%	14% - 30%	11% - 20%
Urban System				
Mileage Extent for Rural States ²	1% - 3%	0% - 2%	4% - 9%	7% - 14%
Mileage Extent for Urban States	1% - 2%	0% - 2%	4% - 5%	7% - 12%
Mileage Extent for All States	1% - 3%	0% - 2%	4% - 5%	7% - 14%
VMT Extent for Rural States ²	17% - 31%	0% - 12%	16% - 33%	14% - 27%
VMT Extent for Urban States	17% - 30%	3% - 18%	17% - 29%	15% - 22%

VMT Extent for All States	17% - 31%	0% - 17%	16% - 31%	14% - 25%
Qualitative Description (Urban)	 and longest trip demail Carry high proportion mileage Interconnect and proving accommodate trips en movements through the Serve demand for intra 	of total urban travel on mi ide continuity for major ru tering and leaving urban	nimum of ral corridors to area and	 Interconnect with and augment the principal arterials Serve trips of moderate length at a somewhat lower level of travel mobility than principal arterials Distribute traffic to smaller geographic areas than those served by principal arterials Provide more land access than principal arterials without penetrating identifiable neighborhoods Provide urban connections for rural collectors
Qualitative Description (Rural)	characteristics indicati travel Serve all or nearly all urban clusters areas v	ents having trip length an ve of substantial statewid urbanized areas and a lar vith 25,000 and over popu network of continuous rou ds)	e or interstate ge majority of ulation	 Link cities and larger towns (and other major destinations such as resorts capable of attracting travel over long distances) and form an integrated network providing interstate and inter-county service Spaced at intervals, consistent with population density, so that all developed areas within the State are within a reasonable distance of an arterial roadway Provide service to corridors with trip lengths and travel density greater than those served by rural collectors and local roads and with relatively high travel speeds and minimum interference to through movement

- 1- Ranges in this table are derived from 2011 HPMS data.
- 2- For this table, Rural States are defined as those with a maximum of 75 percent of their population in urban centers.

Table 3-6: VMT and Mileage Guidelines by Functional Classifications - Collectors and Locals

	Collectors		Local		
	Major Collector ²	Minor Collector ²			
Typical Characterist	ics		<u> </u>		
Lane Width	10 feet - 12 feet	10 - 11 feet	8 feet - 10 feet		
Inside Shoulder Width	0 feet	0 feet	0 feet		
Outside Shoulder Width	1 feet - 6 feet	1 feet - 4 feet	0 feet - 2 feet		
AADT¹ (Rural)	300 - 2,600	150 - 1,110	15 - 400		
AADT¹ (Urban)	1,100 - 6,300 ²	80 - 700			
Divided/Undivided	Undivided	Undivided	Undivided		
Access	Uncontrolled	Uncontrolled	Uncontrolled		
Mileage/VMT Extent (Percentage Ranges)¹					
Rural System					
Mileage Extent for Rural States ³	8% - 19%	3% - 15%	62% - 74%		

			1
Mileage Extent for Urban States	10% - 17%	5% - 13%	66% - 74%
Mileage Extent for All States	9% - 19%	4% - 15%	64% - 75%
VMT Extent for Rural States ³	10% - 23%	1% - 8%	8% - 23%
VMT Extent for Urban States	12% - 24%	3% - 10%	7% - 20%
VMT Extent for All States	12% - 23%	2% - 9%	8% - 23%
Urban System			
Mileage Extent for Rural States ³	3% - 16%	3% - 16%²	62% - 74%
Mileage Extent for Urban States	7% - 13%	7% - 13%²	67% - 76%
Mileage Extent for All States	7% - 15%	7% - 15%²	63% - 75%
VMT Extent for Rural States ³	2% - 13%	2% - 12%²	9% - 25%
VMT Extent for Urban States	7% - 13%	7% - 13%²	6% - 24%

VMT Extent for All States	5% - 13%	5% - 13%²	6% - 25%
Qualitative Description (Urban)	 Serve both land access and traffic circulation in higher density residential, and commercial/industrial areas Penetrate residential neighborhoods, often for significant distances Distribute and channel trips between local streets and arterials, usually over a distance of greater than three-quarters of a mile 	 Serve both land access and traffic circulation in lower density residential, and commercial/industrial areas Penetrate residential neighborhoods, often only for a short distance Distribute and channel trips between local streets and arterials, usually over a distance of less than three-quarters of a mile 	 Provide direct access to adjacent land Provide access to higher systems Carry no through traffic movement
Qualitative Description (Rural)	 Provide service to any county seat not on an arterial route, to the larger towns not directly served by the higher systems, and to other traffic generators of equivalent intra-county importance such as consolidated schools, shipping points, county parks, important mining and agricultural areas Link these places with nearby larger towns and cities or with arterial routes Serve the most important intra-county travel corridors 	 Be spaced at intervals, consistent with population density, to collect traffic from local roads and bring all developed areas within reasonable distance of a minor collector Provide service to smaller communities not served by a higher class facility Link locally important traffic generators with their rural hinterlands 	 Serve primarily to provide access to adjacent land Provide service to travel over short distances as compared to higher classification categories Constitute the mileage not classified as part of the arterial and collectors systems

- 1- Ranges in this table are derived from 2011 HPMS data.
- 2- Information for Urban Major and Minor Collectors is approximate, based on a small number of States reporting.
- 3- For this table, Rural States are defined as those with a maximum of 75 percent of their population in urban centers.

Pavement Management System

Currently, MoDOT's emphasis is on keeping good roads good and doing the best we can with the resources available. Because resources are scarce and MoDOT desires to provide the best service possible to the most customers, we have stratified our roadways into three tiers: Major Roads, Minor Roads and Low Volume Roads. Major Roads account for almost 80% of the Vehicle Miles Traveled (VMT) on state-owned roadways. Minor Roads are other routes that are not Major but have an AADT greater than 400. Low Volume routes are all other routes with an AADT less than 400. We track performance on these routes by category. Our resulting measures are "Good" and "Not Good". They are calculated as follows:

Major Roads speed limit > 45
 Good: IRI < 100

Major Roads speed limit < 50
 Good: Condition_Index >=7 (visual surface distress

rating)

• Minor Roads Good: IRI < 140

Minor Roads
 Good: IRI between 140 and 170 and Condition_Index >=6

• Low Volume Good: IRI < 170

Low Volume
 Good: IRI between 170 and 220 and Condition_Index >=6

In our state of the system tables, this measurement has been calculated, and the results are maintained in the column *Tracker Condition* with the values of "Good", "Not Good" and "NA" or null.

Additional Business Areas with TMS include the following:

Outdoor Advertising - this system includes:

- Adopt A Highway
- Outdoor Advertising •Billboard
- Junkyard
- Transfer Permit
- Media for billboards and junkyards

Routine Maintenance

• Travelway Routine Maintenance is an application containing job numbers for routes and bridges throughout the state. This application enables Routine Maintenance job numbers from the Financial Management System (FMS) to be tied to a location in TMS.

Intelligent Transportation System

SIMS (five-year Statewide Transportation Improvement Program)

Realty Asset/RW Parcel Acquisition

State of the System (yearly summarized roadway, bridge, crash and pavement data)

Traffic Permitting for Right-of-Way – this application tracks the status of permits issued for conducting work on MoDOT right-of-way.

Traveler Information System

These applications are used to keep information current on MoDOT's Traveler Information Map.

The Traveler Information Map is essential to the safety of Missouri's traveling public. Traffic Impact

- Work Zone
- Winter Road Conditions
- Flood Condition
- OSOW Restrictions
- Traveler Information Map (TIM) Auto Editor

This application is used to choose and update layers which will display on the TIM. This application is used only by MoDOT Communications staff.

TIM Alert Management

This application will assist users in changing the alert message for the desktop TIM and the mobile TIM apps for iOS/Android mobile phones. The desktop web application only allows one message to be displayed in the upper left corner of the map. The mobile apps allow multiple messages and will display them in a list for the user. This application is used only by MoDOT Communications staff.

The following is a list of newer applications in TMS:

Stormwater

• This application helps MoDOT regulate under a National Pollutant Discharge Elimination System storm water permit. The permit requires MoDOT to develop and implement a comprehensive program to prevent pollution of surface waters resulting from storm water run-off from MODOT's system.

Local Program Application (LPA) Locations

• The LPA is used to manage jobs located on our city streets and county roads. There is a federal mandate to assign locations to these local projects.

Emergency Operations Map

• This map is for internal use only should a natural disaster occur. It tracks the status of MoDOT roads and bridges during and after a disaster.

TMS Data Zone

This is an internal web page containing maps and other tools that allow MoDOT customers to easily retrieve data and statistics. It contains data in the following areas: Traffic, Safety, Planning, Bridge, Design, Map-21, Construction and Multimodal. The Data Zone also houses the Pavement Tool which is used for planning pavement maintenance activities and surface treatments. The intent is to eventually open this tool to the public.

For detailed information regarding MoDOT business and engineering policy, visit the Engineering Policy Guide at http://epg.modot.org/index.php?title=Main Page.

5. NEEDS IDENTIFICATION

Surveys

At the beginning of each year's prioritization process, SMCOG staff prepare a needs survey to distribute across the region. A transportation needs letter and survey is mailed to each incorporated jurisdiction and county. The survey is also placed on the SMCOG website for online entry or printing and a press release is sent to area media. This provides local officials as well as the general public the opportunity to submit any needs within their respective areas.

Existing needs are posted on the SMCOG website, broken down by county, so that individuals may review what is already on the list prior to submitting a survey.

County Meetings

After any new needs have been collected, SMCOG staff updates each county's list. Staff then schedules meetings with each of the ten counties. Staff attend a County Commission or Transportation Advisory Board meeting to discuss the current list of needs. Each incorporated jurisdiction is also notified of this meeting and invited to attend to provide comments or feedback. The existing list is reviewed, and the commissioners prioritize the list of needs. MoDOT staff also often attend these meetings.

Prioritization

SMCOG staff compiles the top three road and bridge needs and the top two bike and pedestrian needs from each county. These lists are then pre-scored with MoDOT staff for the quantitative measurements used during MoDOT Southwest District prioritization. The criteria is based on MoDOTs Long Range Transportation Plan and Blue Print for Safety.

SMCOG staff then presents the top needs during a TAC meeting. Each TAC member can expand on information pertaining to the needs, but each need may only be discussed for a maximum of two minutes. The TAC then ranks the top 10 regional needs for road and bridge and bike and pedestrian.

This process resulted in the following needs list:

	2024 SMCOG Road and Bridge Needs										
SMCOG Priority #	County Priority #	County	City	Need	Route	Location	Include bridge(s)?	Description	What problem are you trying to solve?	Status	Notes
1	1	Taney		Safety, Economic Development, Congestion/Traffic Management	Hwy 86 and Hwy 65	from Hwy 65 to Long Creek Bridge		Improve by adding lanes and improving geometry. Project would also add an interchange at Hwy 65 and extend to the Branson Airport. Jones Road to the bridge need super 2 lanes, fewer at grade crossings. Eventual direct airport access.	Project need has been increased due to development in the branson Creek and Big Cedar areas as well as the development of the Thunder Ridge Arena. Large event traffic creates extreme congestion on Hwy 86 and Hwy 65.	Received Governor's Cost Share funds for Phase I	
2	1	Christian, Lawrence, Barry	Billings/ Marionvill e/ Aurora/ Monett	Capacity and Safety Improvements	on Rte. 37 & Rte. 60		A7565 - Good (7)	Route 60: 4-lane expressway, Republic to Monett and Route 37: 4-lane expressway and/or passing lanes from Monett to Gateway, AR.	Increase capacity in order to accommodate additional freight traffic and assist in economic development in Barry County. A study has already been completed. Safety improvements on narrow and dangerous portions in southern part of the county. Reduce congestion on 60, improve overall safety; increase economic development. This is a freight route for Monett's industry of EFCO/Pella Windows, Tyson Foods, etc. EFCO, a major employer in Monett has said they are about 100 employees behind but can't find employees, in part due to transportation concerns. Perhaps look at options for four laneing through Marionville city limits in order to accommodate turning traffic and high speeds. Traffic turning off of FR1100 onto 60 and vice versa. Turn lanes on 60 to FR1100 (there is a hospital in this area). Smaller improvements: improvements in Purdy, Seligman at 112, right turn lane in George's, FR1100 (roundabout)	MoDOT added funds to Rte. 37 resurfacing project 7P3120 in FY 19 for turn lanes and potential passing lanes. MoDOT added project 7P0881, Intersection improvement at Route 60 and Route 37 in FY18. Cost share with Monett. (Not resurfaced in 18-22 STIP) Some environmental work has already been completed 2020. Route 37 pavement resurfacing from Monett to Arkansas with passing lane at Washburn and various intersection improvements	Also a freight need
3	1	Stone/ Christian		Capacity & Intersection Improvements	on Rte. 13	from Nixa to Kimberling City	A6081 - Fair (6) NP A7913- Good (8) NP A7914- Good (7) NP	Continue four-lane expressway/ install passing & turn lanes. Intersection Improvements on Rt. 13 and Lakeshore.	Safety concerns with accidents and people passing lake/ tourist traffic and resulting in some head on collisions. Include intersection at 248/13. In the off season there are between 10,000-15,000 cars per day that travel Rt. 13 southbound. There is a small turn lane that holds only 1 car currently. On the Lakeshore to Rt. 13 side there is no turn lane.		Non-Engineered estimate of intersection improvements (Rt. 13 and Lakeshore) and new roadway extension is expected to be in the \$500,000 range.
4	1	Dade	Greenfiel d/ Countywi de	Safety/ Alignment Improvements		From Barton County line to Rtes. MM/FF	T0147 J0552- Fair (5) NP B0409 A2932 - Poor (3) NP A2931 - Poor (3) NP A2542 - Fair (6) NP J0064 - Poor (3/4)	160 needs improvements throughout county;install shoulders; freight route; freight route; Need new bridge/ wider bridge at Kyle Creek & new railroad crossing; S curve between 107 and 115 needs something; frainage issues	Safety concerns with commercial truck traffic and narrow, winding roads. Installation of shoulders needed; 4-8 ft shoulders preferred. 160 is a freight route and the curve between 245 and 203 has seen trucks turning over. Drivers must look back to see oncoming traffic on 160. To come off of 160 and onto 39 North, driver has to cross oncoming taffic. Bridge replacement at Kyle Creek is a higher priority. Shoulders between Lockwood and Greenfield is also a higher priority. There are a lot of semitrucks on 160 from Pennington Seed and Walmart. Pennington will be producing new products so there will likely be an increase in truck traffic. There are trucks and school busses wrecks on narrow roads. There should be focus on Rt 39 South of Greenfield as there is a lot of truck traffic.	reconstruction the entire intersection. September 2021: Bus wreck with 20 kids on 160 east of Lockwood where the road	Conducted traffic counts in May 2019. AADT in curves along 160 was 903. Maximum speed through curves was 77 mph, must faster than is safe. Several accidents occur at intersection, but wonder if they are not getting reported.
5	1	Dallas		Safety, Capacity, and Intersection Improvements	on Rte. 65	Through county; including at Kelly Rd; at Main St; at is Mill St	H0822- Fair (6) NP A4130 - Fair (6) NP A4129 A4128- Fair (6) NP A4127- Fair (6) NP H0837- Fair (5) NP H0836- Fair (5) NP H0838- Fair (6) NP H0834- Fair (5) NP J0113 - Fair (6) NP	Improve capacity countywide. Improve safety and reduce congestion at the following intersections: 65 & Kelly Rd (higher priority for safety concerns), 65 and Mill St, and 65 & Main.	Need to improve capacity countywide and improve safety and reduce congestion at various intersections. Getting worse with traffic. Bus barn and administration building moved to Rt. 65 so there is more congestion along the route. There have been accidents at Truman. There is more tractor trailer and boat traffic. People aren't slowing down when entering the city. Bus traffic goes through 65 & Main. Need caution light for 65 & 73 so people know they are entering the city. Need passing lanes closer to population center heading north on 65.		Extend four-lane or install passing lanes countywide; freight route. At Kelly Rd intersection, 100-150 trucks/week to & from grain elevators and Hostetler; owners willing to cost-share. At Truman Rd intersection, 30 busses/day creates congestion and safety concerns. At 64 intersection, install traffic-calming measurest; current flashing light and high volume of speeders causes accidents. South of MO32 in front of Signal in Buffalo needs median or poles in center lane to prevent accidents when used as traffic lane. Kelly Road as potential cost share. 65-Mill St widening or turn lane (especially west).
6	2	Christian		Safety and intersection improvements	on Rte. 65	Throughout Christian County- at State Hwys A & BB; at Hopkins Road; at Saddlebrook	A3804- Fair (6) A0572 - Fair (6) A3805 - Fair (6) A0896- Fair (6) A0895 - Fair (5) A5865- Good (7) A5866 - Good (8) A0897 - Good (7) A0898 - Fair (6) A0899- Fair (6)	Safety and crash concerns throughout county. Concern w/ schools busses being able to turn, add acceleration/deceleration lanes, add turn lane on southbound 65 to Saddlebrook		MoDOT added funds to US 65 project 7P3210 in FY21 for resurfacing and safety improvements. MoDOT funds also added to US 65 project 7P3235 for resurfacing in FY21. MoDOT funds added to US 65 project 7P3352 in FY21 for high friction surface treatment near Saddlebrooke.	
7	2	Lawrence	Mt. Vernon	Capacity and Safety Improvements	on I-44	I-44 and Rt. 39 interchange (Exit 46)		Interchange improvements. Need to extend ramps. Eastbound traffic on ramp to I-44 at exit 46.	Westbound and eastbound (especially westbound is deficient) ramps need improvements. High traffic congestion is anticipated due to TA Traffic Stop. Truck stop is newly opened. Without the ramp extension, traffic will back up on I-44. The traffic isn't high s expected. Trucks are taring the guard rail making turn from the new TA. Needs some widening. The eastbound entrance ramp needs to be lengthened for safety reasons. The ramp is short and it is difficult to see incoming traffic. This is eastbound from the bridge to get into I-44.		

			1		1					T
8	1	Webster	Rural - Fordland to Seymour	Safety, Congestion/Traffic Management, Freight, Economic Development		US Hwy 60, approx. 11 miles, b/n State Hwy U (Fordland) and W. Clinton Ave. (Seymour).		Intersection and Interchange safety improvements and development of an outer road system along a stretch of US Hwy 60 that runs parallel to a rail line, to enable its eventual upgrade to freeway status	Hwy 60 has seen a significant increase in traffic. Project would eliminate a number of intersections and possibly rail crossings to separate local (and slow moving agricultural) traffic from higher speed vehicles. Could include (but not be limited to) addition of accel / deceleration lanes at Burks St. in Fordland. Could also increase access to rapidly growing area just west of the City of Seymour.	Project recommended as part of US Hwy 60 Corridor Study.
9	1	Polk	Bolivar	Intersection and safety Improvements	on Rt. 83	at Rt. 430th		Improve access to the CMH hospital	Need improved access to get the ambulance to the hospital. With widedned road there will be increase in regular and ambulance traffic. So there is a need for intersection improvements. Need to improve 430th and Hwy 13 intersection as it is skewed.	Potential cost share. A portion received Governor's Cost Share in 2023.
10		Lawrence	Aurora	Intersection Improvements	on Bus. 60 (Church Street)			Upgrade intersection to better accommodate truck traffic; improved turning radius.	Trucks have to take this very wide and causes safety concerns. Pedestrian crossing button needed.	GOTETHOL STEEL SHALE IN 2025.
11	2	Stone		Capacity Improvements	on Rte. 76	from Branson West to Rte. 265		Capacity and alignment improvements; continuation of 4 lane	Include intersection of 76 and 265. There are SDC properties along this corridor so heavy use is expected.	
12	3	Webster	Marshfiel d	Road Realignment/ Intersection Improve	on Rte. DD	Elm Street		Realignment or added traffic control at intersection.	School traffic gridlock due to poor intersection design. Elm Street will see higher traffic due to new interchange. Currently has a concrete median; TEAP project (city/county split) performed, with new conceptual design.	TEAP Study project completed in 2021.
13	1	Greene		Safety, Economic Development, Capacity, & Intersection improvements	on US Hwy 60	Hwy 60 Corridor; Greene county; Access on and off bypass on Hwy 60 between Mill St and Hwy 125	A8343 A8346	Improvements along the US Hwy 60 corridor in Greene County; safety improvements along entire route at lettered routes/60 intersections; Complete freeway conversion from 125 to Rogersville. Complete intersection improvements from 125 to Rogersville (limiting access for freeway standards). Reconfigure ramp to 253 (Current design doesn't allow good ingress/egress, limited access)	Hwy 60 has seen an increase in traffic and has several locations where vehicles are traveling at high speeds, but vehicles may be turning onto/off of 60 onto/off of a lettered route (A). Deceleration/acceleration lanes and a new interchange could assist with the safety concerns. Improve safety and congestion concerns with freight traffic. Limited access and poor ingress and egress.	253+Jamestown: ingress/egress problem
14		Barry	Cassville	Bridge Replacements and intersection improvements	on Rte. 76/86/11 2/248	Over Flat Creek & Brock Branch at 112/248 intersection	J0380- Fair (6) J0566- Fair (6)	Narrow Bridge, Needs pedestrian accommodations Replace and Realign; remove sharp turn	Difficult intersection to navigate, especially large trucks or trailer traffic. Near the ball parks and has heavy traffic as one of the primary entries into Cassville.	
15	3	Taney		Safety	Rt. 76	Rt. 76 and Lakeshore Dr		Improve intersection to address safety issues. Improvements include possible turn lanes, raised islands, and modified taffic control. A continuous Green-T intersection could also be considered at this location.	Rt. 76 has a high volume of traffic. There are no turn lanes on Rt. 76. The intersection is large and not leveled. The curvature of the road and grade limit sight lines to the east. The posted speed on Rt. 76 is 35 mph, though the 85th percentile most likely exceed that speed. Traffic volumes fluctuate with sasonal ativity and may meet signal warrants during peak traffic. Summer camps and resorts in this area.	

2024 SMCOG Bike and Pedestrian Needs											
SMCOG	County										
Priority #	Priority #	County	City	Need	Route	Location	bridge(s)?	Description	What problem are you trying to solve?	Status	Notes
						from Jackson to Mt.		Sidewalk Improvements (part of Springfield Ave	Lack of sidewalks along busy commercial corridor. Parts that do have sidewalks, need widened		
1	1	Polk	Bolivar	Bike/Ped	on Rte. 83	Gilead Road		Complete Street)	or improved.		
2	1	Dallas	Buffalo	Bike/Ped	on Hwy 65	Hwy 65 and Rt. 32		Need peestrian accomodation to cross Hwy 65.	Need to connect sidewalks on Rt. 32 to connect Walmart, Dollar Tree, Woods, and Dispensary. Need to connect to commercial, medical and recreational needs. Seeing a lot more pedestrians running across the signal. There is a new RV park in this area. This has increased foot traffic.		
3	1	Barry	Roaring River State Park	Bike/Ped	on Rte.	over Dry Hollar Branch		Pedestrian Accommodations on Bridge	High number of pedestrians use the State Park and walk on the bridge, but causes a safety concern with traffic. Used to be a pedestrian bridge, but it was washed away.		
4	1	Stone	Kimberling City	Bike/Ped	on Rt. 13	East side of Rt. 13 from Oak drive to Harter House		Sidewalk Improvements	Sidewalks are needed to prevent pedestrians from walking along the highway or a steep cliff side. Women with baby strollers and kids walk on this corridor a lot as there is a Domestic Abuse Center. This is their only mode of transportation.		
5	1	Greene	Fair Grove	Bike/Ped	on Rte. 125	in Fair Grove, Main Street & westward		Sidewalks are needed along State Hwy 125, a busy commercial corridor. A crosswalk on Main Street is needed to safely get students from the schools on the north side of the highway to the south side. Also a need for signage.	Safety concern with pedestrians/children and cyclists on 125, which becomes a busy commercial corridor in Fair Grove. Children cross 125 from the schools to the library.		
6	1	Dade	Greenfield	Bike/Ped	160/39	From Pennington Seed along 160		Need sidewalks along 39 and 160. North side of 160 from Main to 39 first.	With the new Dollar General on 160, numerous people now walk on the highway or along the side to get to Dollar General, pharmacy, and grocery store. New sidewalks along the north side of 160 could assist with this concern. A lot of foot traffic to and from Dollar Store. Lots of kids running into ditches. A lot of Pennington Seed's workforce walk on the road due to lack of sidewalks.		Potential TAP application for sidewalks
7	1	Taney	Branson	Safety, ADA/Acce ssibility/M aintenanc e		From Ferris Wheel to Pat Nash Drive		Numerous areas along the route are not ADA accessible. The paved asphalt shoulders are failing and are too narrow (only 4' wide). There has been a fatality and injury. Need for pedestrian accomodations such as sidewalks, crossings, and pedestrian lighting.			Gretna Road to Ferris Wheel already completed.
8	1	Webster	Fordland	Bike/Ped	Hwy FF/PP	Add sidewalk along Main Street (State Hwys FF / PP) from Center Street to Park Street; incl. rail crossing at Center Street		ADA / pedestrian sidewalk - as recommended in Corridor Study; add sidewalks from downtown to Park and school complex; Include upgrade to PED crossing.	Students are walking along busy street/highway to get to school; construction of a sidewalk to Park Street would provide safer access. Would also increase safety at rail crossing.		Project proposed in US Hwy 60 Corridor Plan.
9	1	Christian	Highlandville	Bike / Ped	on Kentling Rd	from old 160 (Highladville Rd) to Dollar General		Need for sidewalk and bike/ped trail.	This will connect to Spokane Elementary School. There is also need for crosswalk. Students are walking on the road.		
10	1	Lawrence	Miller	Bike/Ped	on Rte. 39	from 6th to Rte. DD (Adamson Street)		Sidewalk Improvements near school; 1st & 2nd Street at Elementary School	Need for crosswalk to Dollar General. Rt 39 has high traffic. There is safety concern for students. A lot of the students walk from the school to Casey's.		

6. FUTURE PROJECT PLAN

The Southwest Missouri Council of Governments is working with cities and counties in the region to identify and prioritize transportation needs that affect the regional transportation network. The process has included multiple meetings with each county's commission in order to identify the most current needs within that county. In addition to meetings, surveys are sent each year to cities and counties. In addition, during at least one Transportation Advisory Committee meeting during the year, each TAC member presents his/her county's needs to the group for informational purposes. This process helps TAC members to make more informed decisions when prioritizing projects.

7. FINANCE

7.1 Federal Funding Sources

Federal revenue sources include the 18.4 cents per gallon tax on gasoline and 24.4 cents per gallon tax on diesel fuel. Other sources include various taxes on tires, truck and trailer sales, and heavy vehicle use. tax and general revenue. These revenues are made available to the states based on formulas prescribed by federal law through transportation funding acts. The previous transportation funding act, Fixing America's Surface Transportation (FAST) Act, authorized federal programs for the five-year period from 2016-2020. It expired Sept. 30, 2020, but was extended for another year by continuing resolution. In Nov. 2021, the federal transportation bill, called the Infrastructure Investment and Jobs Act (IIJA), was reauthorized. The new bill is estimated to increase federal funding to Missouri approximately 25% for five years.

Infrastructure Investment and Jobs Act

The Infrastructure Investment and Jobs Act is a historic investment that will modernize our nation's roads, bridges, transit, rail, ports, airports, broadband, and drinking water and wastewater infrastructure. The bill, which was signed by President Biden on Nov.15, 2021, will provide \$550 billion in new spending on the nation's infrastructure over the next five years. The investments in this legislation will assist in the creation of more livable communities by reducing carbon pollution from the transportation sector and helping to improve water and air quality. The following information, according to the U.S. House of Representative's Committee on Transportation and Infrastructure, provides a summary of the bill:

Repair and rebuild our roads and bridges with a focus on climate change mitigation, resilience, equity, and safety for all users, including cyclists and pedestrians. In Missouri there are 2,190 bridges and over 7,576 miles of highway in poor condition. Since 2011, commute times have increased by 5.9% in Missouri, and on average, each driver pays \$743 per year in costs due to driving on roads in need of repair. The Bipartisan Infrastructure Law is the single largest dedicated bridge investment since the construction of the interstate highway system. Based on formula funding alone, Missouri would expect to receive approximately \$7 billion over five years in Federal highway formula funding for highways and bridges. On an average annual basis, this is

about 29.6% more than the State's Federal-aid highway formula funding under current law (1). Missouri can also compete for the \$15.77 billion Bridge Investment Program for economically significant bridges and \$15 billion of national funding in the law dedicated to megaprojects that will deliver substantial economic benefits to communities. Missouri can also expect to receive approximately \$159 million over five years in formula funding to reduce transportation-related emissions, in addition to about \$180 million over five years to increase the resilience of its transportation system (2). States may also apply federal aid dollars towards climate resilience and safety projects.

Improve the safety of our transportation system. The Bipartisan Infrastructure Law invests \$13 billion over the Fixing America's Surface Transportation (FAST) Act levels directly into improving roadway safety. Over five years, Missouri will receive approximately \$40 million in 402 formula funding for highway safety traffic programs, which help states to improve driver behavior and reduce deaths and injuries from motor vehicle-related crashes. On an average annual basis, this represents about a 29% increase over FAST Act levels (3). Local and tribal governments in Missouri will also be eligible to compete for \$6 billion in U.S. Department of Transportation Office of Public Affairs 1200 New Jersey Avenue, SE Washington, DC 20590 www.transportation.gov/newsroom News funding for a new Safe Streets for All program which will provide funding directly to these entities to support their efforts to advance "vision zero" plans and other improvements to reduce crashes and fatalities, especially for cyclists and pedestrians. In addition, Missouri can expect to receive approximately \$53.4 million over five years in funding to augment their commercial motor vehicle (CMV) safety efforts to reduce CMV crashes through the Federal Motor Carrier Safety Administration's Motor Carrier Safety Assistance Program (MCSAP) formula grant. This represents about a 55% increase in funding compared to FAST Act levels (4). Missouri will be able to apply for funds to modernize data collection systems to collect near real time data on all reported crashes, including fatal ones, to enhance safety and to allow the Department to understand and address trends as they are identified.

Improve healthy, sustainable transportation options for millions of Americans. Missourians who take public transportation spend an extra 79.6% of their time commuting and non-White households are 10 times more likely to commute via public transportation. 32.2% of transit vehicles in the state are past useful life. Based on formula funding alone, Missouri would expect to receive about \$732 million over five years under the Bipartisan Infrastructure Law to improve public transportation options across the state (5). In the first year, this represents about a 36% increase over 2021 FAST Act formula transit funding levels.

Build a network of EV chargers to facilitate long-distance travel and provide convenient charging options. The U.S. market share of plug-in electric vehicle (EV) sales is only one-third the size of the Chinese EV market – in 2020, plug-in electric vehicles made up only 2.3% of new

car sales in the U.S., compared to 6.2% in China. The President believes that must change. The law invests \$7.5 billion to build out the first-ever national network of EV chargers in the United States and is a critical element in the Biden-Harris Administration's plan to accelerate the adoption of EVs to address the climate crisis and support domestic manufacturing jobs. **Under the Bipartisan Infrastructure Law, Missouri would expect to receive about \$99 million over five years to support the expansion of an EV charging network in the state (6). Missouri will also have the opportunity to apply for grants out of the \$2.5 billion available for EV charging.**

Modernize and expand passenger rail and improve freight rail efficiency and safety. The Bipartisan Infrastructure Law includes \$102 billion to eliminate the Amtrak maintenance backlog, modernize the Northeast Corridor, and bring world-class rail service to areas outside the northeast and mid-Atlantic. Within these totals, \$41 billion would be provided as grants to Amtrak, \$43.5 billion for Federal-State Partnership for Intercity Passenger Rail Grants for intercity rail service, including high-speed rail. On top of this, Missouri will be eligible to compete for \$10 billion for rail improvement and safety grants and \$5.5 billion for grade crossing safety improvements."

Improve our nation's airports. The United States built modern aviation, but our airports lag far behind our competitors. Under the Bipartisan Infrastructure Law, airports in Missouri would receive approximately \$247 million for infrastructure development for airports over five years (7). This funding will address airside and landside needs at airports, such as improving runways, taxiways and airport-owned towers, terminal development projects, and noise reduction projects. In addition, \$5 billion in discretionary funding is available over five years for airport terminal development projects that address the aging infrastructure of our nation's airports, including projects that expand accessibility for persons with disabilities, improve access for historically disadvantaged populations, improve energy efficiency, and improve airfield safety.

7.2 What the Fast Act Means for Missouri

State and local governments can look forward to these new & expanded competitive grant programs in the Bipartisan Infrastructure Law (BIL) anticipated to launch over the course of the next year:

- Safe Streets for All (\$6B, new) This program will provide funding directly to local and tribal governments to support their efforts to advance "vision zero" plans and other improvements to reduce crashes and fatalities, especially for cyclists and pedestrians.
- Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Grants (\$15B, expanded) RAISE grants support surface transportation projects of local and/or regional significance.
- Infrastructure for Rebuilding America (INFRA) Grants (\$14B, expanded) INFRA grants will offer needed aid to freight infrastructure by providing funding to state and local

government for projects of regional or national significance. The BIL also raises the cap on multimodal projects to 30% of program funds.

- Federal Transit Administration (FTA) Low and No Emission Bus Programs (\$5.6B, expanded) BIL expands this competitive program which provides funding to state and local governmental authorities for the purchase or lease of zero-emission and lowemission transit buses as well as acquisition, construction, and leasing of required supporting facilities.
- FTA Buses + Bus Facilities Competitive Program (\$2.0B, expanded) This program provides competitive funding to states and direct recipients to replace, rehabilitate, and purchase buses and related equipment and to construct bus-related facilities including technological changes or innovations to modify low or no emission vehicles or facilities. Capital Investment Grants (CIG) Program (\$23B, expanded) The BIL guarantees \$8 billion, and authorizes \$15 billion more in future appropriations, to invest in new high capacity transit projects communities choose to build. The BIL provides funds that may support the 25 projects included in FTA's Annual Report on Funding Recommendations for FY22 as well as additional projects across the country seeking CIG funding over the next five years. Projects must meet CIG program requirements to receive funding. In Missouri, such recommended projects include the Kansas City Streetcar Main Street Extension currently under construction.
- Federal Aviation Administration (FAA) Terminal Program (\$5B, new) This discretionary grant program will provide funding for airport terminal development and other landside projects.
- MEGA Projects (\$15B, new) This new National Infrastructure Project Assistance grant program will support multi-modal, multi-jurisdictional projects of national or regional significance.
- Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation (PROTECT) Program (\$8.7B, new) PROTECT will provide \$7.3 billion in formula funding to states and \$1.4 billion in competitive grants to eligible entities to increase the resilience of our transportation system. This includes funding for evacuation routes, coastal resilience, making existing infrastructure more resilient, or efforts to move infrastructure to nearby locations not continuously impacted by extreme weather and natural disasters.
- Port Infrastructure Development Program (\$2.25B, expanded) BIL will increase investment in America's coastal ports and inland waterways, helping to improve the supply chain and enhancing the resilience of our shipping industry. BIL overall doubles the level of investment in port infrastructure and waterways, helping strengthen our supply chain and reduce pollution.

- 5307 Ferry Program (\$150M, existing) BIL retains the \$30 million per year passenger ferry program for ferries that serve urbanized areas.
- Electric or Low Emitting Ferry Program (\$500M, new) This competitive grant program will support the transition of passenger ferries to low or zero emission technologies.
- Rural Ferry Program (\$2B, new) This competitive grant program will ensure that basic essential ferry service continues to be provided to rural areas by providing funds to States to support this service.
- Federal Highway Administration (FHWA) competitive grants for nationally significant bridges and other bridges (\$15.77B, new) This new competitive grant program will assist state, local, federal, and tribal entities in rehabilitating or replacing bridges, including culverts. Large projects and bundling of smaller bridge projects will be eligible for funding.
- FTA All Station Accessibility Program (\$1.75B, new) This competitive grant program will provide funding to legacy transit and commuter rail authorities to upgrade existing stations to meet or exceed accessibility standards under the Americans with Disabilities Act.
- Charging and fueling infrastructure discretionary grants (Up to \$2.5B, new) This discretionary grant program will provide up to \$2.5 billion in funding to provide convenient charging where people live, work, and shop.
- Reconnecting Communities Pilot Program (\$1B, new) This new competitive program will provide dedicated funding to state, local, MPO, and tribal governments for planning, design, demolition, and reconstruction of street grids, parks, or other infrastructure.
- FHWA Nationally Significant Federal Lands and Tribal Projects (\$1.78B, expanded) This discretionary program provides funding for the construction, reconstruction, and rehabilitation of nationally-significant projects within, adjacent to, or accessing Federal and tribal lands. BIL amends this program to allow smaller projects to qualify for funding and allows 100% federal share for tribal projects.
- Strengthening Mobility and Revolutionizing Transportation (SMART) Grant Program (\$1B, new) The SMART Grant program will be a programmed competition that will deliver competitive grants to states, local governments, and tribes for projects that improve transportation safety and efficiency.
- Rural Surface Transportation Grant Program (\$2B, new) This new competitive grant program will improve and expand surface transportation infrastructure in rural areas, increasing connectivity, improving safety and reliability of the movement of people and freight, and generate regional economic growth.
- (1) These values are estimates and may change based on updated factor data each fiscal year.

- (2) These values are estimates and may change based on updated factor data each fiscal year.
- (3) These values are estimates based on the 2020 FHWA public road mileage data for FYs 2022- 2026. Formula funding amounts in FYs 2023-2026 are subject to change as a result of the annual public road mile data certified by FHWA. The 402 amounts do not include redistribution of unawarded 405 balances per 23 USC § 405(a)(8) as that information is unknown at this time. The Bipartisan Infrastructure Law specifies NHTSA must distribute the supplemental appropriations for Section 402 in "equal amounts for each fiscal year 2022 through 2026". This analysis is subject to provisions of FY 2022-FY2026 appropriations acts.
- (4) These values are estimates and may change based on updated factor data each fiscal year.
- (5) Transit formula funding amounts are subject to changes resulting from the 2020 census or from annual transit service data reported to FTA's National Transit Database.
- (6) These values are estimates and may change based on updated factor data each fiscal year.
- (7) Precise allocations would change each year because the formulas use current passenger boarding and cargo data, and this estimate is based on 2019 data

Link to the information above: The Bipartisan Infrastructure Law Will Deliver for Missouri | US Department of Transportation

Highway and Bridge Revenue Sources

State motor fuel tax

About 73 percent of every dollar MoDOT receives comes from motor fuel taxes. The federal motor fuel tax has not changed since 1993. The state motor fuel tax was increased from 17-cents to 19.5-cents per gallon on October 1, 2021. The last increase was in 1996. The Governor and the General Assembly passed Senate Bill 262 (SB 262) which raises Missouri's motor fuel tax an additional 2.5-cents per year for the next five years. When fully implemented on July 1, 2025, Missouri's state motor fuel tax will be 29.5-cents per gallon and is estimated to generate an additional \$500 million in annual revenue less refunds. The additional revenue is distributed to the state, cities and counties. This revenue source also includes a 9-cent per gallon tax on aviation fuel which must be spent on airport projects. These tax revenue provide approximately 27% of transportation revenues.

Motor vehicle sales and use taxes

MoDOT receives a portion of the state sales tax paid on the purchase or lease of motor vehicles. This revenue source also includes the sales tax paid on aviation fuel which is dedicated to airport projects (see Section 7). These tax revenues provide approximately 13 percent of transportation revenues. In November 2004, voters passed constitutional Amendment 3, which set in motion a four-year phase in, redirecting motor vehicle sales taxes previously deposited in the state's general revenue fund to a newly created State Road Bond Fund. In state fiscal year 2009, the process of redirecting motor vehicle sales taxes to transportation was fully phased in, and the rate of growth in this revenue source slowed dramatically. Starting July 2013, state legislation eliminated the state motor vehicle use tax. The state motor vehicle use tax was replaced with the state motor vehicle sales tax which directs more of the tax to local government agencies.

Revenue collected through this source of state transportation funds has grown slightly over the years with the exception of miscellaneous collections. Motor vehicle sales taxes are projected to grow 2.0 percent annually for 2023 and 2024 and 3.0 percent thereafter. Motor vehicle and driver licensing fees are projected to grow 1.5 percent for 2023 and beyond.

Additional transportation funds have recently been made available via general revenue for the Governor's Focus on Bridges and Transportation Cost Share Programs. The Governor's Focus on Bridges Program authorized \$50 million from the General Revenue Fund to expedite bridge repairs in fiscal year 2020 and the borrowing of \$301 million to fund the costs to plan, design, construct, reconstruct, rehabilitate and make significant repairs to 215 bridges on the state highway system. General Revenue Fund allocations of \$45.5 million for debt service payments will be made available annually for seven years. An allocation from the General Revenue Fund of \$25 million has been made available for the Governor's Transportation Cost Share Program.

Motor vehicle and driver's licensing fees

Vehicle and driver licensing fees include the state share of revenue received from licensing motor vehicles and drivers. This revenue source also includes fees for railroad regulation which are dedicated to multimodal programs. These fees provide approximately 10 percent of transportation revenues. For vehicle registration and driver's licensing fees, cities and counties received \$31 million, or about 9%. For motor vehicle sales tax, cities and counties received \$67 million, or about 14%.

Transportation revenues are shared

It is important to remember cities and counties receive a share of state and federal transportation revenues for projects of their choosing. For fuel taxes, cities and counties receive 5.31 cents of the 19.5 cents per gallon rate, or about 27%. In fiscal year 2022, this totaled \$205 million.

Interest earned on invested funds and other miscellaneous collections

The interest earned on invested funds and other miscellaneous collections provides approximately 4 percent of transportation revenues. Cash balances for roads and bridges are declining. As referenced in Table 1 in Section 5-12, the cash balance of all funds for roads and bridges is expected to decline from \$1,233 million at the beginning of fiscal year 2023 to approximately \$520 million by the end of fiscal year 2027. Other miscellaneous collections include construction cost reimbursements from local governments and other states, proceeds from the sale of surplus property and fees associated with the Missouri logo-signing program.

The General Revenue Fund for the Governor's Transportation Cost share Program, Governor's Focus on Bridges' debt service payments and multimodal programs provide 2% of transportation revenue.

MoDOT has four kinds of bonds: senior bonds that were authorized by the Missouri General Assembly in 2000; Amendment 3 bonds that were authorized by Missouri voters in 2004; bonds authorized by the Missouri General Assembly in 2019 to finance the Focus on Bridges program with debt service from General Revenue over seven years; and federal GARVEE (Grant Anticipation Revenue Vehicle) bonds that financed specific projects. Borrowing advanced construction and allowed Missouri to avoid inflation in labor and materials costs; however, borrowed money must be repaid and new borrowing should be enabled with dedicated and reliable additional revenue to cover repayment and maintain credit ratings. Senior bonds will be paid off in 2023, Amendment 3 bonds will be paid off by 2029 and GARVEE bonds will be paid off by 2033. Focus on Bridges bonds will be paid off in 2027. The average interest rate on all outstanding debt combined is 2.63 percent.

Funding for Alternative Modes of Transportation

Transportation funding for alternative modes has historically been less than 5 percent of all MoDOT transportation revenue (approximately \$96 million annually). The annual allocation for the Transportation Alternatives Program in Missouri is approximately \$30.86 million. Funding for alternate modes of transportation comes from a variety of sources including motor vehicle sales taxes, aviation fuel and sales taxes, railroad regulation fees, state general revenue funds and federal grants. MoDOT Multimodal Operations is responsible for supporting alternative transportation programs within the state. The division functions to continue the advancement and strategic planning for Aviation, Rail, Transit, Waterways, and Freight Development initiatives designed to expand Missouri's infrastructure and facilitate travel and commerce. Through the integration of the various modes, the traveling public enjoys greater accessibility to the resources of the state while industry capitalizes on improved transportation efficiencies.

Multimodal Operations Functional Overview

- Assists in the development of port authorities through the distribution of capital and administrative funding while championing the efficiencies of waterborne transportation to industry and the general public.
- Administers federal and state capital improvement funding for Missouri's eligible public aviation facilities.
- Conducts airports safety inspections.
- Provides financial and technical assistance to public transit and specialized mobility providers across the state.
- Partners with industry and local communities to promote economic development and improved freight traffic efficiency by examining existing infrastructure obstructions and proactively assessing potential obstacles.
- Regulates freight and passenger rail operations, oversees rail crossing safety and construction projects, conducts railroad safety inspections, and provides outreach educational opportunities.
- Supports the continued operation of Amtrak in the state and provides direction for the development of expanded passenger rail service.

The amalgamation of the non-highway transportation modes into a single regulatory division traces its lineage back to the formation of the Missouri Highways and Transportation Department in 1980. With the subsequent merger and reorganization, Multimodal Operations assumed charge of consolidated authority over Aviation, Rail, Transit, and Waterway operations within the state as the definitive administrative body. The division has since evolved into a very specialized organization, centered on engaging partnership participation that focuses on safe, accessible, efficient, and environmentally responsible alternative transportation solutions. In fiscal year 2012, Multimodal Operations functioned with an operating budget of \$2.5 million and a staff of 31, maintained over 4,000 internal and external partnership contacts, and cumulatively delivered over \$79 million in multimodal projects with partners across the state (nearly \$47 million federal funds, over \$14 million in state funds, and over \$18 million in local match funds).

Multimodal Operations Profile - Activities by Mode

Aviation

- Administer grants and provide guidance for public use airports (State Block Grant Program & State Aviation Trust Fund Program)
- Conduct airport safety inspections
- Publish Aeronautical Chart, Airport Directory, and Show Me Flyer
- Maintain State Airport System Plan (SASP)
- Approve Airport Master Plans (AMP) and Airport Layout Plans (ALP)
- Maintain Automated Weather Observing System (AWOS) equipment
- Promote education to the aviation community and other enthusiasts

Rail

- Conduct railroad infrastructure safety inspections (including track, grade crossing signals, and operating practices)
- Support Amtrak passenger rail service through Missouri and promote ridership both through operations and project delivery
- Maintain Statewide Rail Plan to identify the framework for freight and passenger rail development in Missouri for the next twenty years (including High Speed Intercity Passenger Rail (HSPIR))
- o Regulate safety for freight rail and passenger rail in Missouri
- o Enforce safety regulations for light rail operations (Metrolink)
- o Administer the Missouri Highway/Rail Crossing Safety Program
- o Plan and administer funding for rail/highway construction projects
- Present outreach seminars on railroad grade crossing safety in conjunction with Missouri Operation Lifesaver
- Catalog freight and passenger rail maps of Missouri

Transit

- Administer federal grant funding under Section 5310 Agencies Serving Seniors and Persons with Disabilities
- Transportation Assistance Vehicle Program
- Administer federal grant funding under Section 5311 Non-Urbanized Transit Assistance Formula Grant Program, Section 5311(b) Rural Transit Assistance Program (RTAP), and 5311(f) Intercity Bus Program
- Administer federal grant funding under Section 5316 Job Access and Reverse Commute Program (JARC)
- o Administer federal grant funding under Section 5317 New Freedom Program
- Administer federal grant funding under Section 5309 Discretionary Transit Capital Program
- Administer federal grant funding under Section 5305 Statewide Transit Planning Grant Program
- Administer federal grant funding under Section 5339 Bus & Bus Facilities Grant Program
- Administer state funded Missouri Elderly and Handicapped Transportation Assistance Program (MEHTAP)(RSMo 208.250-208.265)
- o Administer state funded Missouri State Transit Assistance Program (RSMo 226.195)
- Administer federal grant funding consistent with the new MAP-21 transportation funding provisions
- Provide technical support and program assistance to partners and external customers

Waterways

- o Assist in the formation and operation of port authorities in Missouri
- o Provide technical assistance and promote use of Missouri's navigable rivers
- Represent port interests in industry and governmental bodies

- Assist in distributing capital and administrative funding for port improvements
- o Provide financial assistance to two ferryboat operations
- Maintain waterways map of port authorities
- Freight Development
 - Encourage freight initiatives that promote economic development and efficient movement of goods
 - Conduct studies to determine opportunities for enhanced system capacity
 - Evaluate performance of state infrastructure to improve efficiencies
 - Host public forums and outreach opportunities for public comment and contribution

Unlike highways, MoDOT does not own multimodal facilities. Instead, MoDOT's role is to administer funding and provide an oversight role for multimodal improvements. Many of the multimodal entities receive local tax revenue and direct federal funding, which are not included in these amounts. MoDOT administered \$35 million of aviation funds in fiscal year 2016. Missouri has dedicated taxes on aviation fuel to fund improvements to public use airports in Missouri. MoDOT also administers federal funding to improve airfield pavement conditions and lighting systems, eliminate obstructions and for expansion projects.

In fiscal year 2016, MoDOT administered \$34 million of transit funds. The majority of these funds are from federal programs that support operating costs and bus purchases for transit agencies across the state. There is a small amount of state and General Revenue funding to support operating costs for transit agencies. MoDOT administered \$19 million of rail funds in fiscal year 2016. These funds are used to support two programs – the Amtrak passenger rail service between St. Louis and Kansas City, and safety improvements at railroad crossings. The Amtrak funding is from General Revenue, and safety improvements at railroad crossings are from state and federal sources.

Waterways funding totaled \$6 million in fiscal year 2016. These funds provided operating and capital assistance to Missouri's river ports and ferry boat operators. MoDOT also administers a \$1 million freight enhancement program that provides assistance to public, private or not-for-profit entities for non-highway capital projects that improve the efficient flow of freight in Missouri.

Internal operating costs to administer the various multimodal programs totaled \$3 million, including salaries, wages and fringe benefits. In fiscal year 2016, MoDOT administered \$98 million for multimodal needs. Since only \$96 million was available, MoDOT used \$2 million of cash balances dedicated by law to multimodal activities to provide these projects and services.

Missouri's transportation needs are substantial, and the costs of the needs are enormous. Yet, the sources that have traditionally provided transportation funding in Missouri and in the nation are not adequate. They do not keep pace with the rising cost of construction and maintenance, and they provide little for alternative modes of transportation. Another complicating factor is that Missouri's transportation revenues are small in comparison to many other states. Missouri's revenue per mile

of state highway is one of the lowest in the region and in the country. Missouri ranks 47th nationally in revenue per mile which leads to significant unfunded transportation needs across the state. Missouri receives both state and federal transportation funds. Much of the funding comes with strings attached, limiting the activities for which it can be used. For example, the state motor fuel tax can only be spent on highways and bridges. It is not available for alternative modes of transportation. Federal funds may be earmarked for specific projects or limited to specific types of construction such as interstate maintenance. Some federal and state funds are allocated to specific modes of transportation such as transit or passenger rail.

7.3 Funding Tools for the Local or Regional Level

Funding for local county and municipal roadway maintenance and construction comes primarily from the state-distributed motor fuel tax, individual city and county capital improvement sales taxes and transportation sales taxes. Additional potential revenue options are available for local or regional transportation projects.

Economic Development Administration - Public Works and Economic Development Program

Through the Public Works and Economic Development Act of 1965, the United States Department of Commerce, through its EDA branch, offers project grants to enhance regional competitiveness and promote long-term economic development in regions experiencing substantial economic distress. EDA provides Public Works investments to help distressed communities and regions revitalize, expand, and upgrade their physical infrastructure to attract new industry, encourage business expansion, diversify local economies and generate or retain long-term private sector jobs and investment. Current priorities include proposals that help support existing industry clusters, develop emerging new clusters or attract new economic drivers.

Project grants may be used for investments in facilities such as water and sewer systems, industrial access roads, industrial and business parks, port facilities, railroad sidings, distance learning facilities, skill-training facilities, business incubator facilities, redevelopment of brownfields, eco-industrial facilities and telecommunications infrastructure improvements needed for business retention and expansion. Eligible activities include the acquisition or development of public land and improvements for use for a public works, public service or development facility, and acquisition, design and engineering, construction, rehabilitation, alteration, expansion, or improvement of publicly-owned and operated development facilities, including related machinery and equipment. A project must be located in a region that, on the date EDA receives an application for investment assistance, satisfies one or more of the economic distress criteria set forth in 13 C.F.R. 301.3(a). In addition the project must fulfill a pressing need of the region and must:

- 1. Improve the opportunities for the successful establishment or expansion of industrial or commercial plants or facilities in the region;
- 2. Assist in the creation of additional long-term employment opportunities in the region; or
- 3. Primarily benefit the long-term unemployed and members of low-income families.

In addition, all proposed investments must be consistent with the currently approved Comprehensive Economic Development Strategy (CEDS) for the region in which the project will be located, and the applicant must have the required local share of funds committed, available and unencumbered. Also, the project must be capable of being started and completed in a timely manner.

USDA Rural Development

Community Programs, a division of the Housing and Community Facilities Programs, is part of the United States Department of Agriculture's Rural Development mission area. Community Programs administers programs designed to develop essential community facilities for public use in rural areas. These facilities include schools, libraries, childcare, hospitals, medical clinics, assisted living facilities, fire and rescue stations, police stations, community centers, public buildings and transportation. Through its Community Programs, the Department of Agriculture is striving to ensure that such facilities are readily available to all rural communities. Community Programs utilizes three flexible financial tools to achieve this goal: the Community Facilities Guaranteed Loan Program, the Community Facilities Direct Loan Program, and the Community Facilities Grant Program.

Community Programs can make and guarantee loans to develop essential community facilities in rural areas and towns of up to 20,000 in population. Loans and guarantees are available to public entities such as municipalities, counties, and special-purpose districts, as well as to non-profit corporations and tribal governments. Applicants must have the legal authority to borrow and repay loans, to pledge security for loans, and to construct, operate and maintain the facilities. They must also be financially sound and able to organize and manage the facility effectively. Repayment of the loan must be based on tax assessments, revenues, fees, or other sources of money sufficient for operation and maintenance, reserves and debt retirement. Feasibility studies are normally required when loans are for start-up facilities or existing facilities when the project will significantly change the borrower's financial operations. The feasibility study should be prepared by an independent consultant with recognized expertise in the type of facility being financed.

Community Programs can guarantee loans made and serviced by lenders such as banks, savings and loans, mortgage companies which are part of bank holding companies, banks of the Farm Credit System or insurance companies regulated by the National Association of Insurance Commissioners. Community Programs may guarantee up to 90 percent of any loss of interest or principal on the loan. Community Programs can also make direct loans to applicants who are unable to obtain commercial credit. Loan funds may be used to construct, enlarge, or improve

community facilities for health care, public safety and public services. This can include costs to acquire land needed for a facility, pay necessary professional fees and purchase equipment required for its operation. Refinancing existing debts may be considered an eligible direct or guaranteed loan purpose if the debt being refinanced is a secondary part of the loan, is associated with the project facility and if the applicant's creditors are unwilling to extend or modify terms in order for the new loan to be feasible.

Additionally, Community Programs also provides grants to assist in the development of essential community facilities in rural areas and towns of up to 20,000 in population. Grants are authorized on a graduated scale. Applicants located in small communities with low populations and low incomes will receive a higher percentage of grants. Grants are available to public entities such as municipalities, counties, and special-purpose districts, as well as non-profit corporations and tribal governments. In addition, applicants must have the legal authority necessary for construction, operation, and maintenance of the proposed facility and also be unable to obtain needed funds from commercial sources at reasonable rates and terms.

Grant funds may be used to assist in the development of essential community facilities. Grant funds can be used to construct, enlarge, or improve community facilities for health care, public safety and community and public services. This can include the purchase of equipment required for a facility's operation. A grant may be made in combination with other Community Facilities financial assistance such as a direct or guaranteed loan, applicant contributions or loans and grants from other sources. The Community Facilities Grant Program is typically used to fund projects under special initiatives, such as Native American community development efforts, childcare centers linked with the Federal government's Welfare-to-Work initiative, Federally-designated Enterprise and Champion Communities and the Northwest Economic Adjustment Initiative area.

Statewide Transportation Assistance Revolving (STAR) Fund

The STAR Fund, authorized by the Missouri General Assembly in 1997, provides loans to local entities for non-highway projects such as rail, waterway and air travel infrastructure. The STAR fund can also provide loans to fund rolling stock for transit and the purchase of vehicles for elderly or handicapped persons. The STAR fund can assist in the planning, acquisition, development and construction of facilities for transportation by air, water, rail or mass transit; however, STAR fund monies cannot fund operating expenses. The local district engineer must endorse projects in cooperation with MoDOT's Multimodal Team. The Cost Share Committee evaluates STAR applications and provides a recommendation to the Missouri Highways and Transportation Commission (MHTC), which is the deciding body.

Delta Regional Authority - Delta Development Highway System

The Delta Regional Authority (DRA) was established by Congress in 2000 to enhance economic development and improve the quality of life for residents of this region. The DRA encompasses 252 counties and parishes in Alabama, Arkansas, Illinois, Kentucky, Louisiana, Mississippi, Missouri and Tennessee.

There are 29 counties in Missouri that are a part of the DRA region. The counties are in the southeast part of the state and make up the Eighth Congressional District. They are: Bollinger, Butler, Cape Girardeau, Carter, Crawford, Dent, Douglas, Dunklin, Howell, Iron, Madison, Mississippi, New Madrid, Ozark, Pemiscot, Perry, Phelps, Oregon, Reynolds, Ripley, Scott, Shannon, St. Francois, Ste. Genevieve, Stoddard, Texas, Washington, Wayne and Wright. There are a total of 566 DDHS miles identified in Missouri, which constitutes 14.7 percent of the total DDHS miles, of which 346 miles are 2-lane facilities. The Missouri DDHS improvements consist of widening and upgrading portions of US 60, US 63, US 67, US 412 and MO 8.

As a key part of its effort to improve the lives of Delta residents, the DRA operates a grant program in the eight states it serves. The DRA works closely with local development districts, which provide technical assistance to grant applicants. Once grant applications are submitted each year, the federal co-chairman determines which applications are eligible for funding and which are ineligible. There is an appeals process for those applicants whose submissions are deemed ineligible. From the list of eligible applicants, the governors of the eight states then make recommendations to the full board. The board decides which projects are funded based on the funds available. Congress has mandated that transportation and basic public infrastructure projects must receive at least 50 percent of appropriated funds. The authority may provide matching funds for other state and federal programs.

During a planning retreat in February 2005, the Delta Regional Authority board voted to make transportation one of the authority's three major policy development areas. The DRA Highway Transportation Plan/Delta Development Highway System Plan (DDHS) was developed following input from transportation executives and local organizations in the eight states covered by the DRA. Public meetings were held throughout the region in the fall of 2006. The plan was presented to the President and Congress. The DDHS consists of 3,843 miles of roads throughout the region. The estimated cost to complete the planned improvement projects for these roads is \$18.5 billion. Of the roads in the plan, 27 percent provide four or more travel lanes already and the remainder is two-lane roads.

Missouri Department of Economic Development - Community Development Block Grants

Through the Missouri Department of Economic Development, the Community Development Block Grant Program (CDBG), a federal program through HUD, offers grants to small Missouri communities to improve local facilities, address critical health and safety concerns and develop a greater capacity for growth. The program offers funds for projects that can range from housing and street repairs to industrial loans and job training. State CDBG funds are only available to non-entitlement areas (incorporated municipalities under 50,000 and counties under 200,000 in population).

Larger cities receive funds directly through the Entitlement Communities Grants program. The entitlement program provides annual grants on a formula basis to entitled cities and counties to develop viable urban communities by providing decent housing and a suitable living environment, and by expanding economic opportunities, principally for low-income and moderate-income persons. HUD awards grants to entitlement community grantees to carry out a wide range of community development activities directed toward revitalizing neighborhoods, economic development and providing improved community facilities and services. Entitlement communities develop their own programs and funding priorities. However, grantees must give maximum feasible priority to activities which benefit low- and moderate-income persons. A grantee may also carry out activities which aid in the prevention or elimination of slums or blight. Additionally, grantees may fund activities when the grantee certifies that the activities meet other community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community where other financial resources are not available to meet such needs. CDBG funds may not be used for activities which do not meet these broad national objectives.

Sales Tax

The 4.225 percent state sales/use tax rate in Missouri is lower than the rates in 38 other states, as of Jan. 1, 2017, according to Taxfoundation.org. Missouri communities have the option of adopting a local sales tax, generally ranging from one-half to one percent. Counties may also adopt a sales tax generally ranging from one-fourth to one percent that can be used for transportation.

Use Tax

Use tax is similar to sales tax, but is imposed when tangible personal property comes into the state and is stored, used or consumed in Missouri. Communities have the option of adopting a local use tax equal to the local sales tax for that community to use for transportation expense.

Local Option Economic Development Sales Tax

The Local Option Economic Development Sales Tax, approved by the Missouri General Assembly in 2005, allows citizens to authorize a supplemental sales tax dedicated exclusively for certain economic development initiatives in their home municipality. The state statute section governing this program is found at 67.1305 RSMo. The voter-approved tax of not more than one half per cent is charged on all retail sales made in the municipality that are subject to sales taxes under

Ch.144 RSMo. Missouri statutes define "municipality" as an incorporated city, town, village or county. Revenues generated by the tax may not be used for retail developments unless such retail projects are limited exclusively to the redevelopment of downtown areas and historic districts. A portion of the revenues may be used for project administration, staff and facilities, and at least twenty per cent of the funds raised must be used for projects directly related to long-term economic preparation, such as land acquisition, installation of infrastructure for industrial or business parks, water and wastewater treatment capacity, street extensions and for matching state or federal grants related to such long-term projects. Any remaining funds may also be used for marketing, training for advanced technology jobs, grants and loans to companies for employee training, equipment and infrastructure and other specified uses.

Neighborhood Improvement District

A Neighborhood Improvement District (NID) may be created in an area desiring certain public-use improvements that are paid for by special tax assessments to property owners in the area in which the improvements are made. The kinds of projects that can be financed through an NID must be for facilities used by the public, and must confer a benefit on property within the NID. An NID is created by election or petition of voters and/or property owners within the boundaries of the proposed district. Election or petition is authorized by a resolution of the governing body of the municipality in which the proposed NID is located. Language contained in the petition narrative or ballot question must include certain information including, but not limited to a full disclosure of the scope of the project, its cost, repayment and assessment parameters to affected property owners within the NID.

Community Improvement District

A Community Improvement District (CID) may be either a political subdivision or a not-for-profit corporation. CIDs are organized for the purpose of financing a wide range of public-use facilities and establishing and managing policies and public services relative to the needs of the district. By request petition, signed by property owners owning at least 50 percent of the assessed value of the real property, and more than 50 percent per capita of all owners of real property within the proposed CID, presented for authorizing ordnance to the governing body of the local municipality in which the proposed CID would be located. Unlike a Neighborhood Improvement District, a CID is a separate legal entity, and is distinct and apart from the municipality that creates the district. A CID is, however, created by ordinance of the governing body of the municipality in which the CID is located, and may have other direct organizational or operational ties to the local government, depending upon the charter of the CID.

Tax Increment Financing

Local Tax Increment Financing (Local TIF) permits the use of a portion of local property and sales taxes to assist funding the redevelopment of certain designated areas within your community. Areas eligible for Local TIF must contain property classified as a "Blighted", "Conservation" or an "Economic Development" area, or any combination thereof, as defined by Missouri Statutes. The idea behind Local TIF is the assumption that property and/or local sales taxes (depending upon the

type of redevelopment project) will increase in the designated area after redevelopment, and a portion of the increase of these taxes collected in the future (up to 23 years) may be allocated by the municipality to help pay the certain project costs, partially listed above.

Transportation Development Districts

Transportation Development Districts (TDDs) are organized under the Missouri Transportation Development District Act, Sections 238.200 to 238.275 of the Missouri State Statutes. The district may be created to fund, promote, plan, design, construct, improve, maintain and operate one or more projects or to assist in such activity.

Transportation Development Corporations

Transportation Development Corporations (TDCs) are organized under the Missouri Transportation Corporation Act, Sections 238.300 to 238.367 of the Missouri State Statutes. TDCs act in promoting and developing public transportation facilities and systems and in promoting economic development. Demands for transportation improvements have greatly outpaced the funds available to meet them. In response to this demand, the Missouri Department of Transportation has established various mechanisms for successful public/public and public/private partnerships. These expand financing options for transportation projects that serve a public purpose, including: highway and rail projects, transit equipment, air and water transportation facilities and elderly/handicapped vehicles. The benefits to a project assisted by these partnerships may include: inflation cost savings, early economic and public benefits, financing tailored to the project's needs and a reduced cost of project financing.

Partnership Debt-Financing Programs

Debt-financing programs make loans to a project that has to be repaid. The Missouri Transportation Finance Corporation's (MTFC) authority to form and operate is initially derived from the Transportation Equity Act for the 21st Century (TEA-21). The MTFC incorporated in August 1996, adopted bylaws and subsequently entered into a Cooperative Agreement with the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the Federal Railroad Administration (FRA), agencies of the United States Department of Transportation (USDOT) and the Missouri Highways and Transportation Commission (Commission). Under the authority granted initially by TEA-21, as amended by 23 U.S.C. 610, the Missouri Non Profit Corporation Act, Chapter 355, RSMo, and pursuant to the Cooperative Agreement, the Commission organized the MTFC to assist in financing transportation improvements.

The MTFC provides direct loans for transportation projects within the state of Missouri. Loans are funded from available MTFC resources. The MTFC assistance may be any type authorized by 23 U.S.C. 610. The following are examples of potential financing options included in 23 U.S.C. 610: Primary or subordinated loans, Credit enhancements, Debt reserve financing, Subsidized interest

rates, Purchase and lease agreements for transit projects, and Bond security. These direct loans must help assist the Commission to achieve continued economic, social and commercial growth of Missouri, act in the public interest, or promote the health, safety and general welfare of Missouri citizens.

Bridge Replacement Off-System (BRO)

The Off-System Bridge Replacement and Rehabilitation (BRO) program provides funding to counties for replacement and rehab of bridges. A minimum amount of approach roadway construction may be allowed under the program. Federal Funds are available to finance up to 80% of the eligible project cost, but may be increased with the use of credit earned from replacing an eligible bridge that is not on the federal-aid system. It will be necessary for the local agency to provide the necessary matching funds. The fair market value of donated right-of-way may be credited to the local agency's matching share with the amount not to exceed the local agency's share. Both Missouri Department of Economic Development CDBG funds and EDA Local Public Works funds can be used to match BRO funds, if used on the project.

BRO Funds are administered according to the following policy:

The current Highway Act requires that at least 15% and no more than 35% of the state's
total bridge appropriation be allocated to the counties and the City of St. Louis for use on
off-system bridges (BRO). The Missouri Highway and Transportation Commission approves
the amount of bridge funds allocated to this program. Off-system bridges are bridges that
are on roads that are functionally classified as a local road or street and rural minor
collectors.

Federal Aviation Administration - Airport Improvement Program

The Airport Improvement Program (AIP) provides grants to public agencies - and, in some cases, to private owners and entities - for the planning and development of public-use airports that are included in the National Plan of Integrated Airport Systems (NPIAS). For large and medium primary hub airports, the grant covers 75 percent of eligible costs (or 80 percent for noise program implementation). For small primary, reliever, and general aviation airports, the grant covers 95 percent of eligible costs. AIP grants for planning, development or noise compatibility projects are at or associated with individual public-use airports (including heliports and seaplane bases). A public-use airport is an airport open to the public that also meets the following criteria:

- 1. Publicly owned, or
- 2. Privately owned but designated by the FAA as a reliever, or
- 3. Privately owned but having scheduled service and at least 2,500 annual enplanements.

Further, to be eligible for a grant, an airport must be included in the NPIAS. The NPIAS, which is prepared and published every two years, identifies public-use airports that are important to public transportation and contribute to the needs of civil aviation, national defense, and the

postal service. The description of eligible grant activities is described in the authorizing legislation and relates to capital items serving to develop and improve the airport in areas of safety, capacity and noise compatibility. In addition to these basic principles, a grantee must be legally, financially and otherwise able to carry out the assurances and obligations contained in the project application and grant agreement.

Eligible projects include those improvements related to enhancing airport safety, capacity, security and environmental concerns. In general, sponsors can use AIP funds on most airfield capital improvements or repairs except those for terminals, hangars, and non-aviation development. Any professional services that are necessary for eligible projects - such as planning, surveying and design - are eligible as is runway, taxiway and apron pavement maintenance. Aviation demand at the airport must justify the projects, which must also meet Federal environmental and procurement requirements. Projects related to airport operations and revenue-generating improvements are typically not eligible for funding. Operational costs - such as salaries, maintenance services, equipment and supplies - are also not eligible for AIP grants.

FAA Airport and Airway Trust Fund (AATF)

The Airport and Airway Trust Fund (AATF), created by the Airport and Airway Revenue Act of 1970, provides funding for the federal commitment to the nation's aviation system through several aviation-related excise taxes. Funding currently comes from collections related to passenger tickets, passenger flight segments, international arrivals/ departures, cargo waybills, aviation fuels and frequent flyer mile awards from non-airline sources like credit cards.

Transportation Alternatives Program (TAP) Funding

Transportation Alternatives Program (TAP) was authorized under the Moving Ahead for Progress in the 21st Century Act (MAP-21) to provide for a variety of alternative transportation projects, including many that were previously eligible activities under separately funded programs. The TAP replaces the funding from pre-MAP-21 programs including Transportation Enhancements, Recreational Trails, Safe Routes to School, and Scenic Byways, wrapping them into a single funding source. The TAP remains in place with the 2015 passage of the FAST ACT. The mission of the Transportation Alternatives Program is to improve our nation's communities through leadership, innovation, and program delivery. The funds are available to develop a variety of project types located in both rural and urban communities to create safe, accessible, attractive, and environmentally sensitive communities where people want to live, work, and recreate. The Transportation Alternatives Program consists of: Transportation Enhancement (TE) activities, Recreational Trails Program (RTP), Safe Routes to School (SRTS) activities, and Boulevards from Divided Highways.

Traffic Engineering Assistance Program (TEAP)

The Traffic Engineering Assistance Program (TEAP) allows local public agencies (LPA) to receive engineering assistance for studying traffic engineering problems. Typical traffic engineering related projects include: corridor safety and/or operational analysis, intersection(s) safety and/or operational analysis, speed limit review, sign inventory, pedestrian/bike route analysis, parking issues, and other traffic studies, etc. Local public agencies are reimbursed for eligible project costs at a rate of 80 percent with the local agency providing a 20-percent match. Funds administered by MoDOT, will provide 80 percent of the TEAP project costs, up to \$8,000 per project. If the total cost is greater than \$10,000, the local agency can pay more than 20 percent to complete the TEAP project, if desired.

Federal Lands Access Program (FLAP)

The Federal Lands Access Program (FLAP) provides funds for projects on Federal Lands Access Transportation Facilities that are located on or adjacent to, or that provide access to Federal lands as provided for in the FAST Act. The FLAP, as an adjunct to the Federal-Aid Highway Program, covers highway programs in cooperation with federal-land managing agencies. It provides transportation-engineering services for planning, design, construction and rehabilitation of the highways and bridges providing access to federally owned lands. The Federal Highway Administration (FHWA) also provides training, technology, deployment, engineering services and products to other customers. The FHWA administers the Federal Lands Access Program, including survey, design and construction of forest highway system roads, parkways and park roads, Indian reservation roads, defense access roads and other federal-lands roads. The FHWA, through cooperative agreements with federal-land managing agencies such as the National Park Service, Forest Service, Military Traffic Management Command, Fish and Wildlife Service and the Bureau of Indian Affairs, administers a coordinated federal-lands program consisting of forest highways. public-lands highways, park roads and parkways, refuge roads and Indian reservation roads. This program provides support for approximately 30,000 miles of public roads serving Federal and Indian lands to support the economic vitality of adjacent communities and regions.

Cost Share Program Guidelines

The purpose of the Cost Share Program is to build partnerships with local entities to pool efforts and resources to deliver state highway and bridge projects. The Missouri Department of Transportation (MoDOT) allocates Cost Share funds based on the Missouri Highways and Transportation Commission's (MHTC) approved funding distribution formula. For fiscal years 2021 through 2023, ten percent (10%) is set-aside for projects that demonstrate economic development. Beginning in fiscal year 2024, twenty percent (20%) is set-aside for projects that demonstrate economic development. The Commission may select projects for the set-aside funds and provide up to one hundred percent (100%) of the total project cost. Projects are selected by the Cost Share Committee, which consists of the Deputy Director/Chief Engineer, Chief Financial

Officer, Assistant Chief Engineer, and two members selected by the Director. They are then recommended for approval by the MHTC via a STIP amendment.

The Missouri Department of Economic Development (DED) may recommend projects for the setaside funds. The projects must demonstrate economic development through job creation. MoDOT works in cooperation with the DED and project sponsors to determine when targeted investments can be made to create jobs and may provide up to one-hundred percent (100%) of the total project cost. Retail development projects do not qualify as economic development projects that create jobs.

MoDOT's participation includes the amount of Cost Share funds allocated to the project, District STIP or Operating Budget funds and activities performed by MoDOT such as preliminary engineering, right of way incidentals and construction engineering.

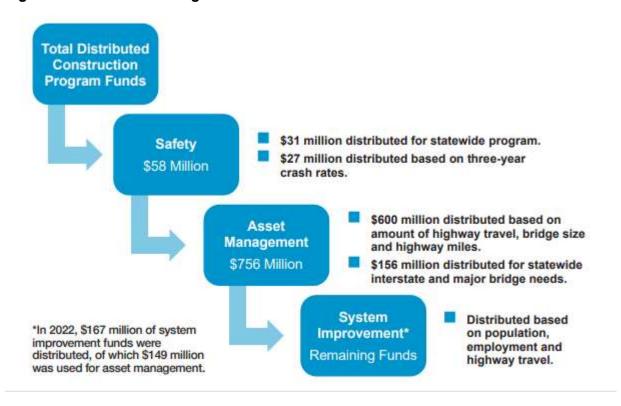
Generally, the Cost Share funding per project is limited to \$10 million in total and \$2.5 million per year. However, projects exceeding this limit can be considered based on factors such as project need, the opportunity for economic development and the willingness of the local partners to be flexible and bring resources to the table. Project applications that significantly expand the state highway system or increase maintenance costs for MoDOT must seek pre-approval by the Deputy Director/Chief Engineer prior to submittal of the application to MoDOT.

7.4 Funding Distribution

Since 2003, the Missouri Highways and Transportation Commission has used a formula to distribute construction program funds for road and bridge improvements to each of its seven districts. This is the largest area of MoDOT's budget that provides funding for safety improvements, asset management and system improvement funds that districts can use to take care of the system or invest in major projects that relieve congestion and spur economic growth. In many districts, asset management funds are not sufficient to maintain current system conditions. Districts use system improvement funds to make up the difference.

Figure 7.1 identifies how construction program funds are allocated annually to districts using the following formula:

Figure 7.1 MoDOT Funding Distribution for Construction Funds



Source: MoDOT's Citizen's Guide to Transportation Funding in Missouri, November 2022.

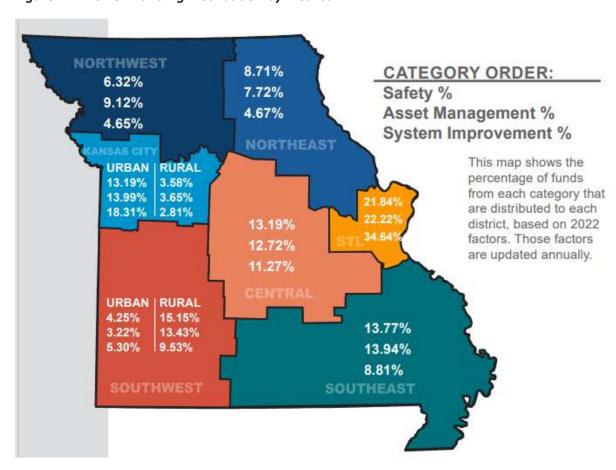


Figure 7.2 MoDOT Funding Distribution by District

Source: MoDOT's Citizen's Guide to Transportation Funding in Missouri, November 2022.

Funding Distribution Overview

Once construction program funds are distributed to districts, MoDOT collaborates with regional planning groups to identify local priorities based on projected available funding. The regional transportation improvement plans are brought together to form the department's Statewide Transportation Improvement Program, which outlines five years of transportation improvements. As one year of the plan is accomplished, another year is added.

8. PLAN IMPLEMENTATION

The Southwest Missouri Council of Government's Regional Transportation Plan conforms MoDOT's planning framework. The process of creating the prioritized lists is an exhaustive exercise to include the community at large, commissioners, local community leaders, and members of the TAC. Through surveys, numerous meetings and the SMCOG website, the community has been engaged in an attempt to produce a list that is both publically driven and useful to MoDOT in their decision-making process. The process of prioritizing needs is guided by the investment goals put forth in the Framework for Transportation Planning and Decision Making:

- Safety
- Taking Care of the System
- Congestion
- Access to Opportunity
- Efficient Movement of Goods
- Economic Competitiveness
- Environmental Protection
- Quality of Communities

Environmental Justice

The SMCOG Regional Transportation Plan includes projects that have the potential to help those who are at a disadvantage either economically or physically. With a large region, the percentage of disadvantaged population varies. The rural elderly population in SMCOG greater than 64 is an average of 14%; although, there are pockets where that percentage is dramatically higher. The disabled population ranges between 16% and 59%. The number of zero car households also varies per county with the high being 7.5% in Dallas County to 4% in Christian County. With the population of our region only expected to grow in the next 10 years, it is important that this plan take into account projects that will help these often-overlooked populations. We must find a way to expand public transportation into the rural areas of Southwest Missouri.

Social and Economic Impacts

Many of the needs included in this plan may reduce the number of fatalities on Missouri's roadways. Projects such as adding shoulders, better striping, guard cables, reducing the number of at-grade crossings and improving site distance issues will make thousands of Missourians travelling the roadways of Southwest Missouri safer. Upgrading and redesigning major corridors in our region will make the transportation system not only safer but also more efficient. Due to the high rate of growth in our region, working with local communities and land use and zoning authorities to accommodate higher densities for both residential and commercial uses near major arterials makes the transition from lower travelled, lower speed rural routes to higher speed corridors smoother and safer by redesigning key intersections and including merge and turn lanes. Additionally, SMCOG promotes an increase in public transit funds for the increasing numbers of disadvantaged persons.

Conclusion

The Southwest Missouri Council of Governments recognizes that the Regional Transportation Plan is a static document attempting to describe ever-changing conditions. Considering the changes in

land use and development and the overall dynamic nature of transportation planning, makes it necessary to make continual updates to this document. As conditions change, so do the needs of our region and it is the intent of this document to stay as current as possible by working with local communities, local zoning and planning authorities, and the TAC in creating a meaningful planning tool.

Abbreviation Key

AATF Airport and Airway Trust Fund
AIP Airport Improvement Program

ALP Airport Layout Plans

ALERT Assistance for Local Emergency Response Training

AMP Airport Master Plans

AWOS Automated Weather Observing System

BRO Off-System Bridge Replacement and Rehabilitation
CDBG Community Development Block Grant Program
CEDS Comprehensive Economic Development Strategy

CID Community Improvement District

DDHS Delta Development Highway System Plan

DRA Delta Regional Authority

EDA Economic Development Administration

EPW Environment and Public Works

FAST Fixing America's Surface Transportation

FC Functional Classification

FHWA Federal Highway Administration
FLAP Federal Lands Access Program
FMS Financial Management System
FTA Federal Transit Administration
GAO Government Accountability Office
HSPIR High Speed Intercity Passenger Rail

JARC Job Access and Reverse Commute Program

LOS Level of Service

Local TIF Local Tax Increment Financing
LPA Local Program Application

LRTP Long Range Transportation Plan

MACOG Missouri Association of Councils of Governments
MHTC Missouri Highways and Transportation Commission

MoDOT Missouri Department of Transportation

MPO Metropolitan Planning Organization

MSHP Missouri State Highway Patrol

MTFC Missouri Transportation Finance Corporation's

NBI National Bridge Inventory

NI Natural Increase

NID Neighborhood Improvement District

NPIAS National Plan of Integrated Airport Systems

NTD National Transit Database

OTO Ozarks Transportation Planning Organization

PRIIA Passenger Rail Investment and Improvement Act

RAISE Rebuilding American Infrastructure with Sustainability and Equity

RPCs Regional Planning Commissions

RTP Recreational Trails Program

SASP State Airport System Plan

SMCOG Southwest Missouri Council of Governments

SRTS Safe Routes to School

STAR Statewide Transportation Assistance Revolving

STIP State Transportation Improvement Program

TAC Transportation Advisory Committee

TAP Transportation Alternatives Program

TDCs Transportation Development Corporations

TDDs Transportation Development Districts

TDM Transportation Demand Management

TE Transportation Enhancement

TEAP Traffic Engineering Assistance Program

TIM Traveler Information Map

TIP Transportation Improvement Program

TMA Transportation Management Area

TRADAS Traffic Data Acquisition System

USDOT United States Department of Transportation

VMT Vehicle Miles Traveled