

Regional Indicators

A Report on Transportation System
Indicators for the Central Florida
MPO Alliance

December 2022

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1 | Executive Summary

Transportation is a critical part of our lives. The quality of life and the economic vitality of our communities depend on an individual's access to work, education, health services and other destinations. The condition of our roads, walkways, transit, runways, and other transportation features directly affects the well-being of our businesses, residents, and visitors alike.

The Central Florida Metropolitan Planning Organization Alliance (CFMPOA) is a coalition of Metropolitan Planning Organizations (MPOs) and Transportation Planning Organizations (TPOs) committed to addressing transportation challenges on a regional basis. The purpose of this report is to provide an overview of the transportation system within the CFMPOA region and how they are affected by conditions such as the economy, population growth, technology, travel behavior, and funding. The goal is to identify key factors and emerging trends that impact Central Florida's transportation needs.

Methodology

This report was originally prepared by MetroPlan Orlando to collect and maintain data on critical transportation indicators to inform future policy decisions. In 2022, the report was updated to include additional data sources and map layers, including information compiled in the Florida Department of Transportation Source Book.

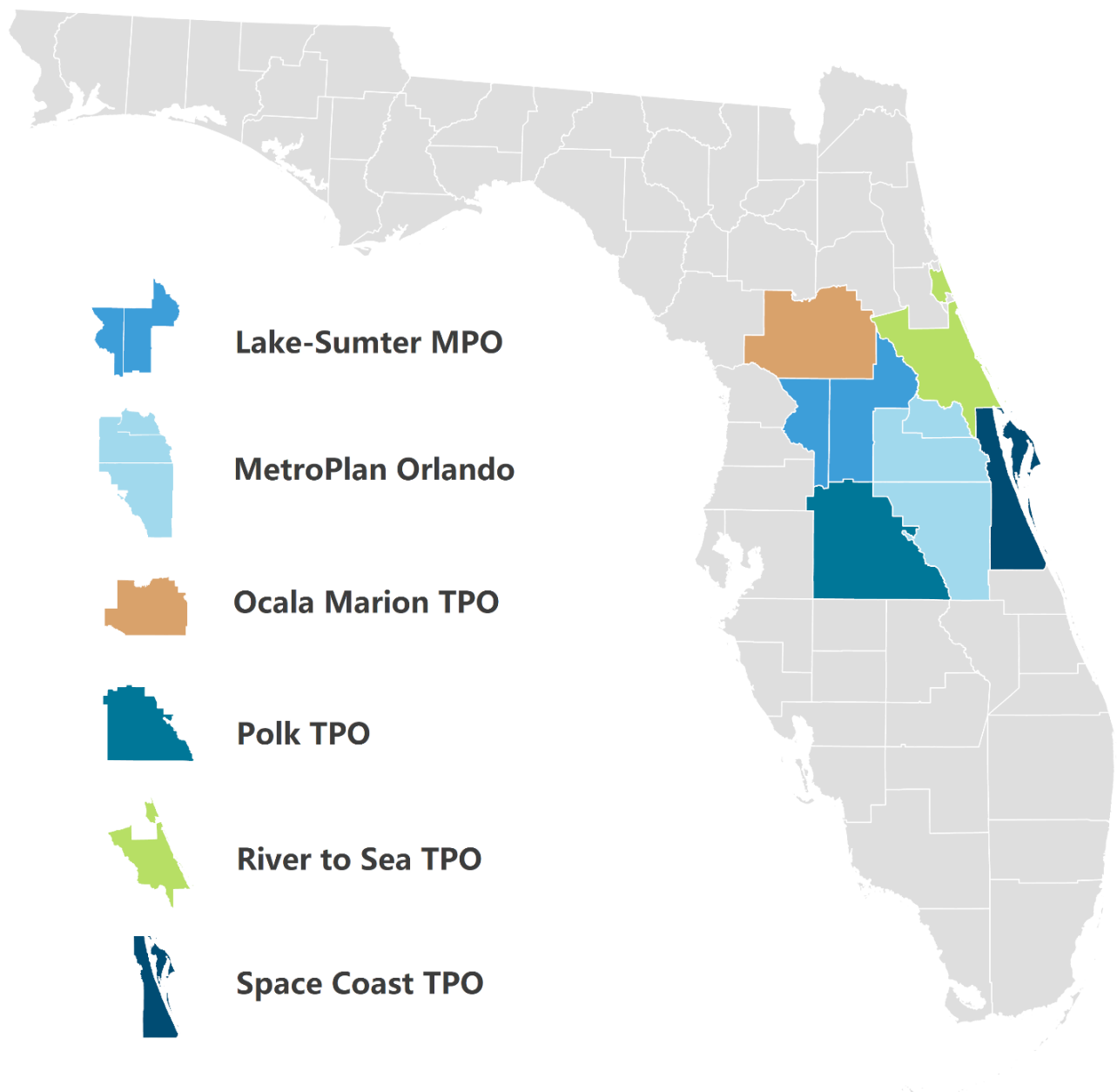
The Regional Indicators report includes the latest data and available information at the time of publication for the various indicators used to measure transportation system activity over a five-year-to-ten-year period.

Data is provided by several national, state, and local agencies, including the Federal Highway Administration, the U.S. Census Bureau, the U.S. Department of Labor Statistics, the Florida Department of Transportation, the Florida Department of Highway Safety and Motor Vehicles, the Florida Department of Environmental Protection, the University of Florida Bureau of Business and Economic Research, and numerous others as described in the source documentation section of the report.

About Us

The Central Florida Metropolitan Planning Organization (MPO) Alliance is a coalition of transportation and government organizations committed to addressing transportation challenges on a regional basis. The group is made up of representatives from the ten-county Central Florida region, including portions of Flagler County.

The MPO Alliance has a policy board of eighteen members, three from each of the six member organizations. Representatives from the Florida Department of Transportation also participate. The group meets quarterly and operates on the basis of consensus, and staff support is provided by MetroPlan Orlando. The Central Florida MPO Alliance has established goals and is seeking to maximize all opportunities presented by a regional transportation forum.



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2 | Area Profile

Section Outline

- 2.1: Population & Employment Trends
- 2.2: Visitation & Tourism
- 2.3: Regional Demographics
- 2.4: Land Use & Urbanization

2.1 | Population & Employment Trends

Population

The table below shows population growth trends for the ten counties and each of the six TPO's included in the Central Florida MPO Alliance region as provided by the U.S. Census Bureau.¹ Additionally, 2045 population projections from the University of Florida Bureau of Economic and Business Research (BEBR) are provided.² Additional tables are available in Appendix 1.

County Population	2018	2019	2020	2021	% Growth	2045	% Growth
					2018-21	2021-45	
Brevard County	594,978	601,024	608,459	616,628	3.6%	739,100	19.9%
Flagler County*	112,415	115,481	118,451	120,932	7.6%	165,200	36.6%
Lake County	357,086	366,941	375,492	395,804	10.8%	587,900	48.5%
Marion County	359,630	365,997	373,513	385,915	7.3%	472,700	22.5%
Orange County	1,383,657	1,395,371	1,429,899	1,422,746	2.8%	1,968,996	38.4%
Osceola County	367,359	374,170	385,315	403,282	9.8%	657,100	62.9%
Polk County	707,095	724,976	744,552	753,320	6.5%	1,019,500	35.3%
Seminole County	468,195	471,791	474,171	470,093	0.4%	567,300	20.7%
Sumter County	129,351	133,772	139,018	135,638	4.9%	219,600	61.9%
Volusia County	547,117	554,065	561,497	564,412	3.2%	674,200	19.5%
CFMPOA Region	5,026,883	5,103,588	5,210,367	5,268,770	4.8%	7,071,596	34.2%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): U.S. Census Bureau (2018-2021); UF BEBR (2045)

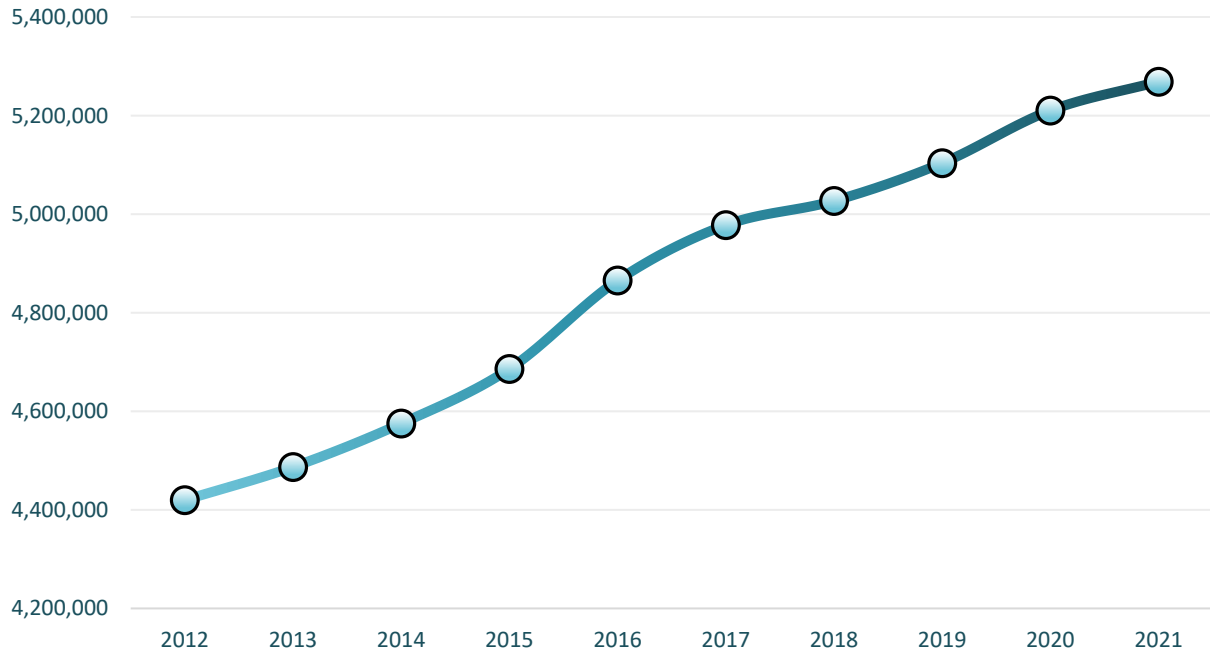
TPO Population	2018	2019	2020	2021	% Growth	2045	% Growth
					2018-21	2021-45	
Lake-Sumter MPO	486,437	500,713	514,510	531,442	9.3%	807,500	51.9%
MetroPlan Orlando	2,219,211	2,241,332	2,289,385	2,296,121	3.5%	3,193,396	39.1%
Ocala Marion TPO	359,630	365,997	373,513	385,915	7.3%	472,700	22.5%
Polk TPO	707,095	724,976	744,552	753,320	6.5%	1,019,500	35.3%
River to Sea TPO*	659,532	669,546	679,948	685,344	3.9%	839,400	22.5%
Space Coast TPO	594,978	601,024	608,459	616,628	3.6%	739,100	19.9%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

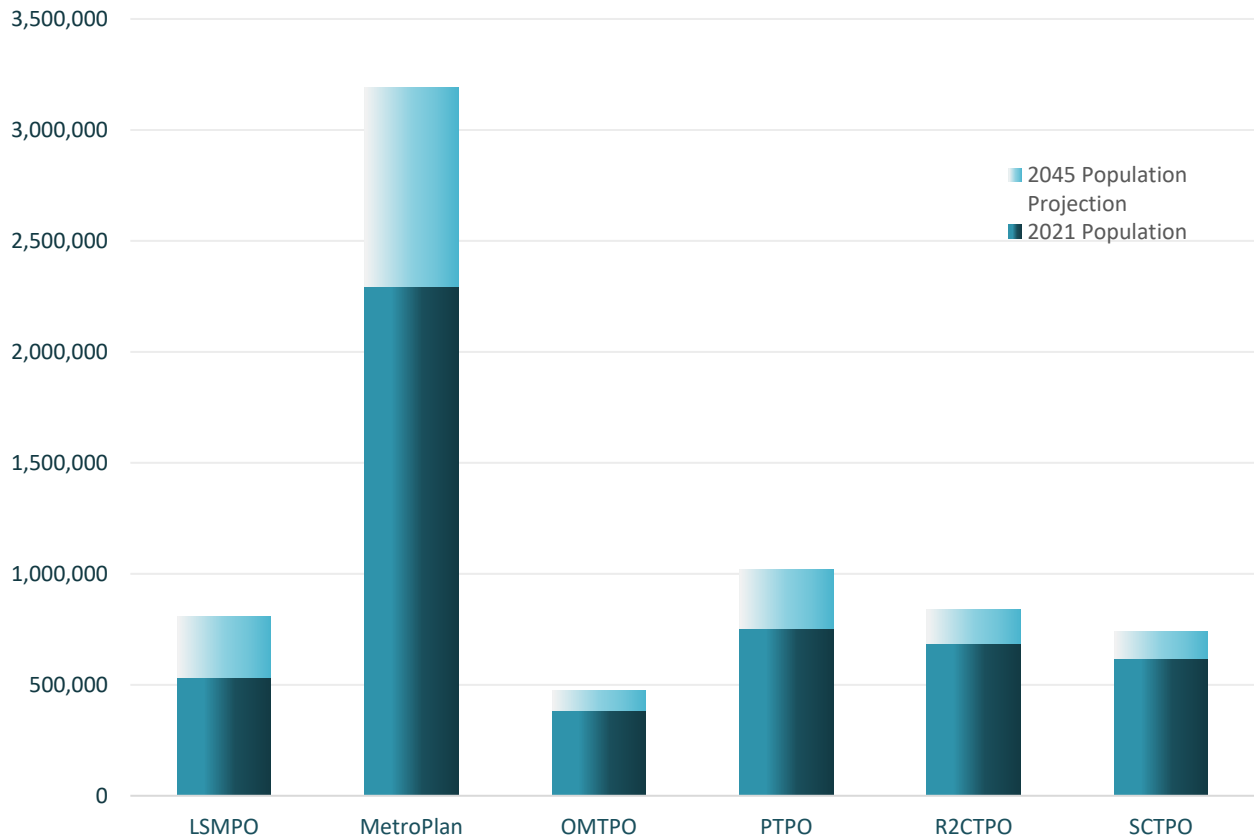
Source(s): U.S. Census Bureau (2018-2021); UF BEBR (2045)

Historic Central Florida MPO Alliance Population

U.S. Census Bureau; UF BEBR (2022)

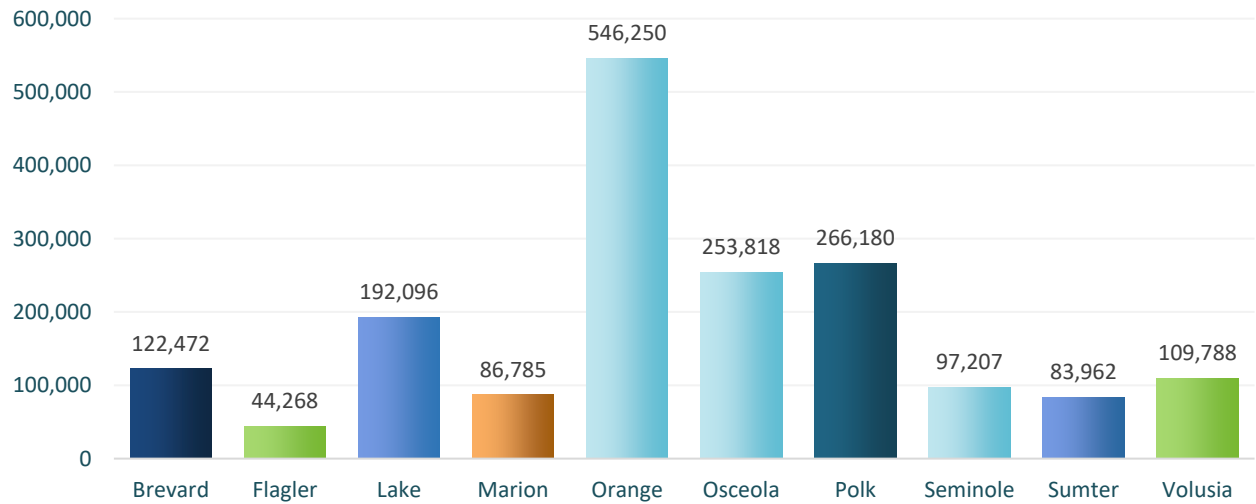
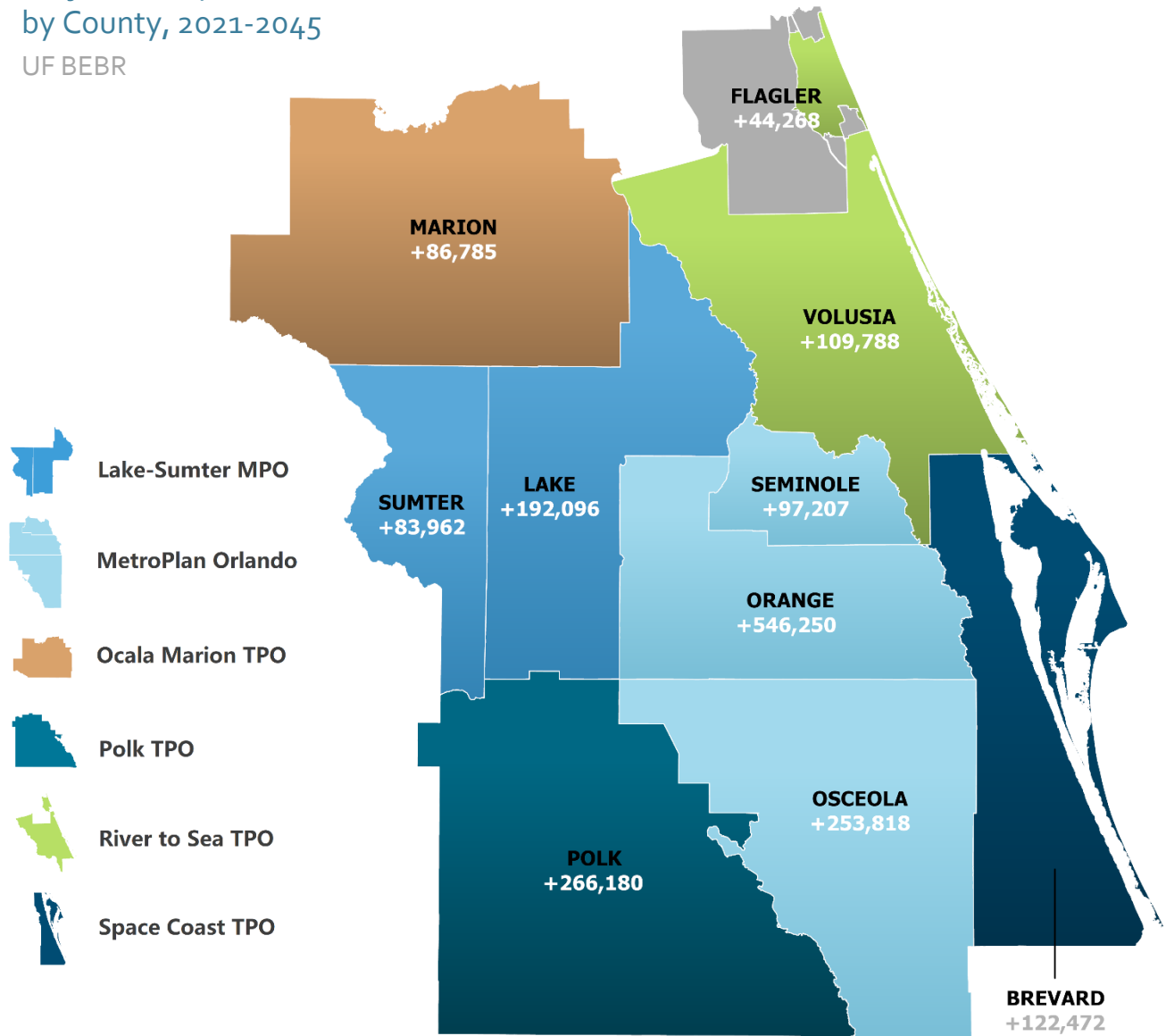


2021 to 2045 Population Growth, by TPO



Projected Population Growth by County, 2021-2045

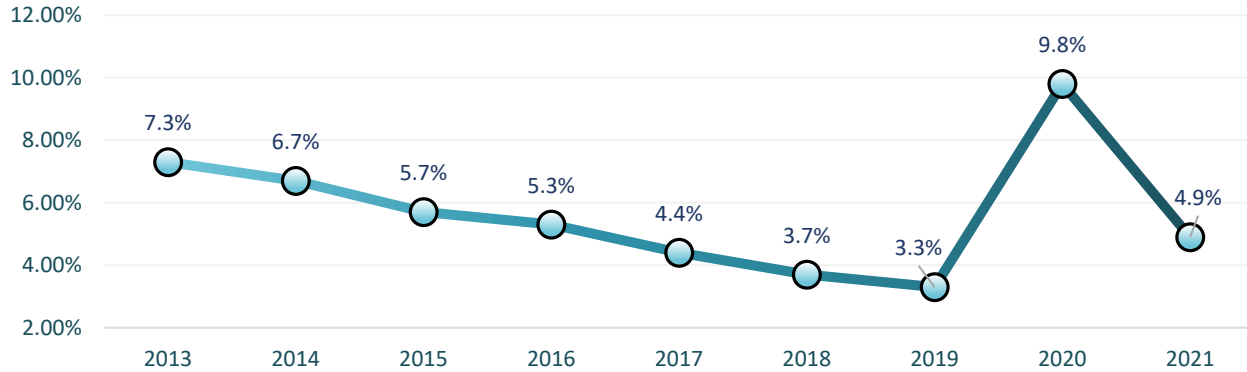
UF BEBR



Employment

The tables and chart below show total employed individuals and the unemployment rate (depicted as "U. Rate") for the ten counties and each of the six TPO's included in the MPO Alliance region from 2018 to 2021, as provided by the U.S. Bureau of Labor Statistics.³ The chart shows the Central Florida MPO Alliance region unemployment rate from 2013 to 2021.

Historic Central Florida MPO Alliance Unemployment Rate



County Employment	2018		2019		2020		2021	
	Employed	U. Rate	Employed	U. Rate	Employed	U. Rate	Employed	U. Rate
Brevard County	264,555	3.6%	272,198	3.3%	261,302	7.2%	277,951	4.0%
Flagler County*	44,337	4.2%	45,471	3.9%	43,263	8.1%	46,067	4.6%
Lake County	148,689	3.7%	155,121	3.3%	142,000	9.4%	152,035	4.7%
Marion County	128,740	4.5%	132,637	3.9%	128,343	7.6%	135,009	4.9%
Orange County	715,936	3.3%	730,279	3.0%	656,788	11.5%	702,684	5.2%
Osceola County	172,446	3.8%	177,876	3.4%	162,828	14.4%	174,170	6.3%
Polk County	283,912	4.3%	292,210	3.8%	288,447	9.8%	311,005	5.4%
Seminole County	239,979	3.3%	244,386	3.0%	219,095	7.8%	234,590	4.1%
Sumter County	29,435	5.3%	30,789	4.8%	29,876	8.5%	32,790	5.3%
Volusia County	241,060	3.9%	242,915	3.6%	228,265	8.2%	243,303	4.6%
CFMPOA Region	2,269,089	3.7%	2,323,882	3.3%	2,160,207	9.8%	2,309,604	4.9%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): U.S. Bureau of Labor Statistics (2022)

TPO Employment	2018		2019		2020		2021	
	Employed	U. Rate	Employed	U. Rate	Employed	U. Rate	Employed	U. Rate
Lake-Sumter MPO	178,124	3.9%	185,910	3.5%	171,876	9.3%	184,825	4.8%
MetroPlan Orlando	1,128,361	3.4%	1,152,541	3.1%	1,038,711	11.2%	1,111,444	5.1%
Ocala Marion TPO	128,740	4.5%	132,637	3.9%	128,343	7.6%	135,009	4.9%
Polk TPO	283,912	4.3%	292,210	3.8%	288,447	9.8%	311,005	5.4%
River to Sea TPO*	285,397	3.9%	288,386	3.6%	271,528	8.2%	289,370	4.6%
Space Coast TPO	264,555	3.6%	272,198	3.3%	261,302	7.2%	277,951	4.0%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

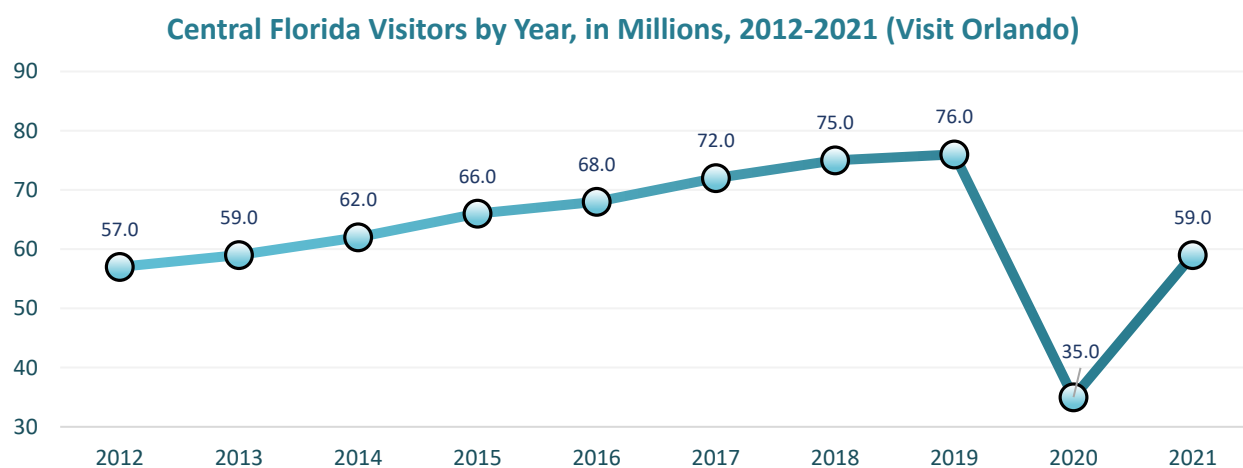
Source(s): U.S. Bureau of Labor Statistics (2022)

2.2 | Visitation & Tourism

This section of the Regional Indicators report provides data on visitation and tourism trends in the Central Florida MPO Alliance region.

Annual Visitors

The Central Florida MPO Alliance region has numerous attractions, ranging from beaches to some of the most-visited attractions in the world. The chart below shows a growing number of annual visitors to the Central Florida region through 2019, with a 53% decrease occurring in 2020 as a result of the COVID-19 pandemic. In 2021, visitor numbers rebounded to 2013 levels.⁴



Hotel Room Occupancy

The Central Florida MPO Alliance region has a very large service-related economy, and there are a large number of hotels and motels regionwide. The Table below shows the number of hotels and motels in the Central Florida MPO Alliance region from 2018 to 2021.⁵ License numbers for individual hotel rooms are not available via countywide search after 2017.

Hotel Rooms by County	2013-14	2014-15	2015-16	2016-17	% Growth
	2014-17				
Brevard County	9,312	9,277	9,195	9,335	0.2%
Flagler County*	N/A	N/A	N/A	N/A	N/A
Lake County	2,995	2,995	2,731	2,752	-8.1%
Marion County	4,055	4,042	4,038	4,049	-0.1%
Orange County	86,571	87,662	87,717	89,333	3.2%
Osceola County	25,115	24,435	24,155	24,365	-3.0%
Polk County	6,931	7,036	7,264	7,296	5.3%
Seminole County	4,989	5,226	5,054	4,637	-7.1%
Sumter County	770	770	770	763	-0.9%
Volusia County	11,755	11,840	11,748	11,441	-2.7%
CFMPOA Region	152,493	153,283	152,672	153,971	1.0%

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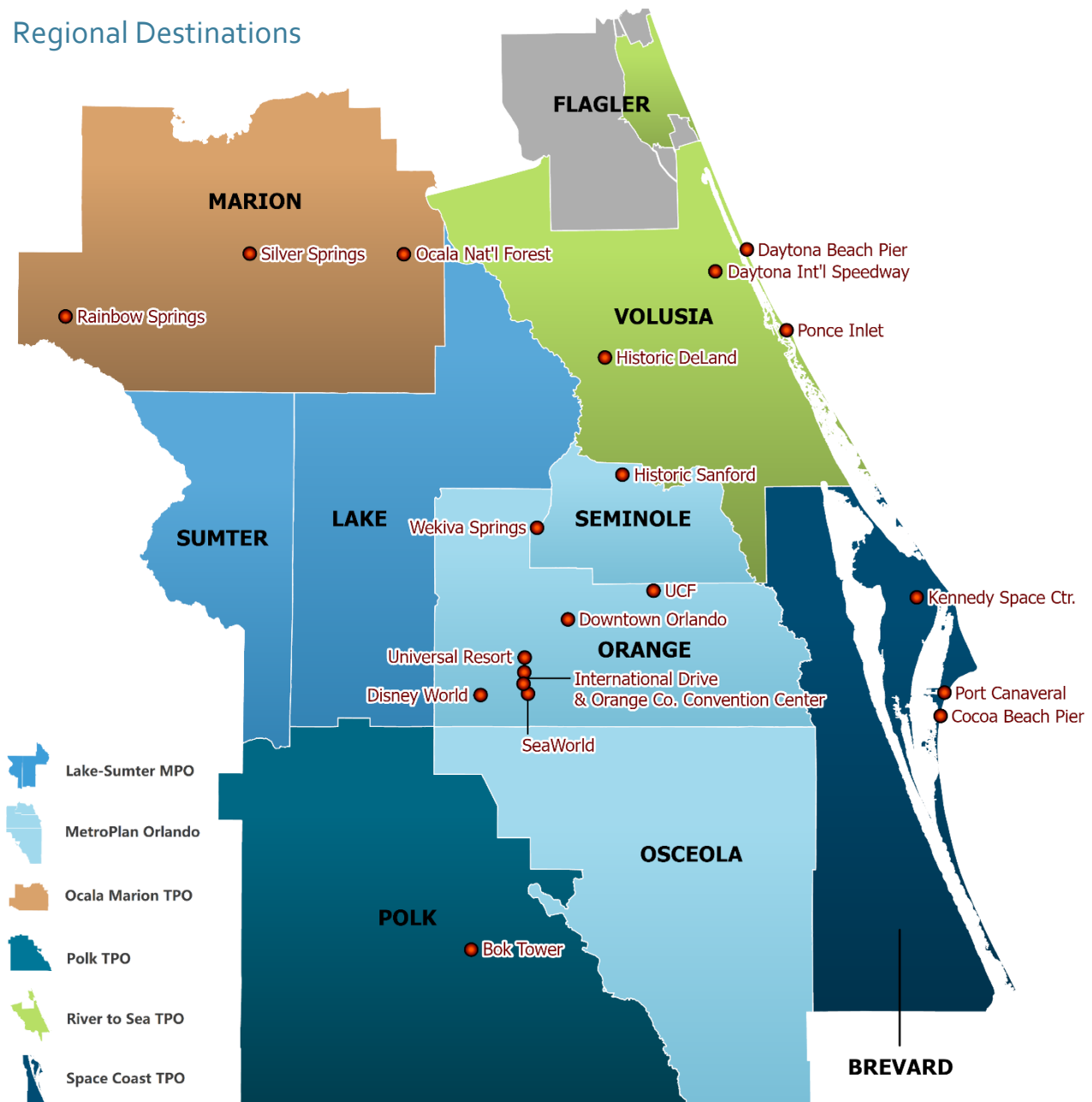
Source(s): Florida Dept. of Business and Professional Regulation

Destinations

The map below depicts major destinations present in the Central Florida MPO Alliance region. Orange County, which is in the central portion of the region, is home to numerous theme park and entertainment attractions including Walt Disney World, Universal Orlando Resort, and the International Drive district. The Orange County Convention Center is also a major business destination. Along the east coast, the region boasts one of the largest ports in the U.S., Port Canaveral, as well as the Kennedy Space Center.

Other major destinations include Daytona International Speedway, historic town centers, world-famous beaches, and natural destinations including springs and national forests.

Regional Destinations



2.3 | Regional Demographics

The tables below provide detailed breakdowns of the composition of the Central Florida MPO Alliance region, its ten counties, and its six member TPO's. Statistics in the analysis include population by age ranges (0-17, 18-64, and 65+), median household income, and household poverty rates for 2021 as approximated by the U.S. Census Bureau's July 2021 estimates.⁶

The charts on the following page depict this information for each of the six TPO's included in the Central Florida MPO Alliance region.

Demographics	Median H.H Income	Poverty Rate (% Households)	Percent Aged 0-17	Percent Aged 18-64	Percent Aged 65+
Brevard County	\$59,359	9.9%	18.2%	57.6%	24.2%
Flagler County*	\$57,536	9.4%	16.4%	52.5%	31.1%
Lake County	\$55,792	9.2%	19.2%	54.3%	26.5%
Marion County	\$46,587	15.3%	18.8%	52.5%	28.7%
Orange County	\$61,416	12.7%	21.6%	65.6%	12.8%
Osceola County	\$55,538	11.8%	24.2%	62.4%	13.4%
Polk County	\$51,535	14.4%	22.1%	58.1%	19.8%
Seminole County	\$70,297	8.0%	20.8%	62.8%	16.4%
Sumter County	\$59,618	12.3%	7.0%	34.8%	58.2%
Volusia County	\$52,407	11.6%	17.6%	57.4%	25.0%
CFMPOA Region	\$57,496	11.9%	20.1%	59.3%	20.6%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

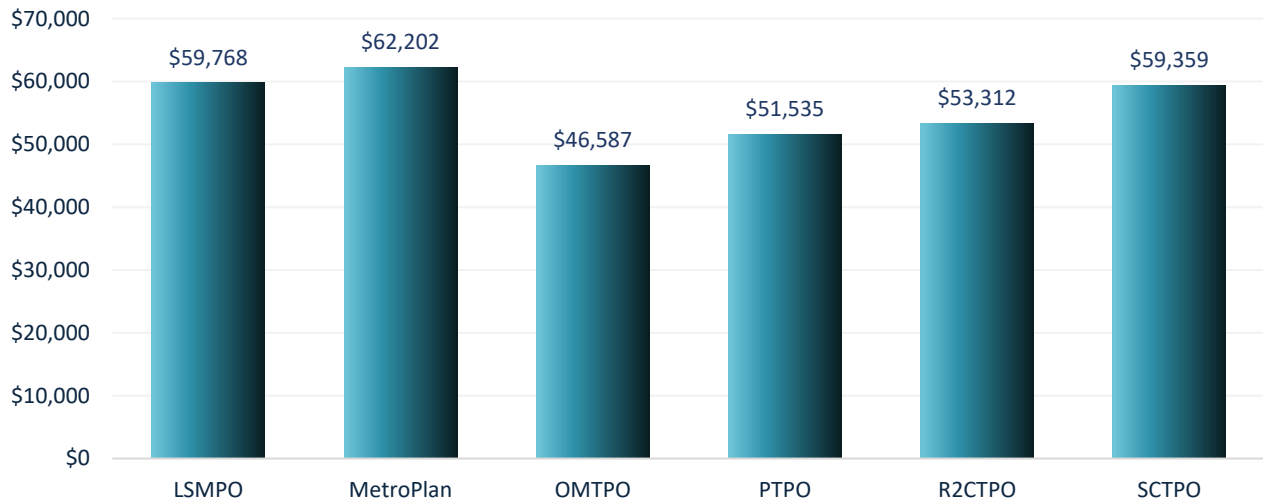
Source(s): U.S. Census Bureau, V2021 Estimates

Demographics	Median H.H Income	Poverty Rate (% Households)	Percent Aged 0-17	Percent Aged 18-64	Percent Aged 65+
Lake-Sumter MPO	\$56,768	10.0%	16.1%	49.3%	34.6%
MetroPlan Orlando	\$62,202	11.6%	21.9%	64.5%	13.6%
Ocala Marion TPO	\$46,587	15.3%	18.8%	52.5%	28.7%
Polk TPO	\$51,535	14.4%	22.1%	58.1%	19.8%
River to Sea TPO*	\$53,312	11.2%	17.4%	56.5%	26.1%
Space Coast TPO	\$59,359	9.9%	18.2%	57.6%	24.2%

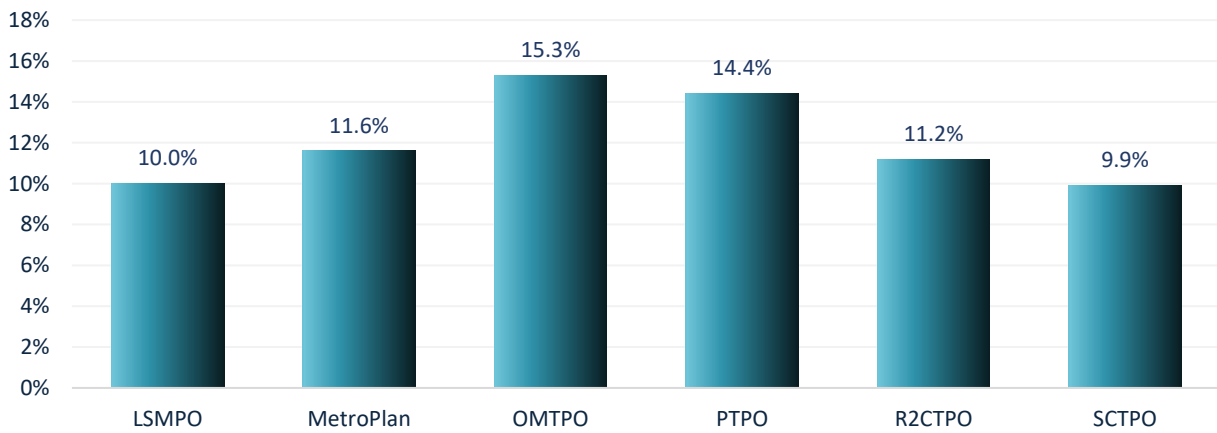
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): U.S. Census Bureau, V2021 Estimates

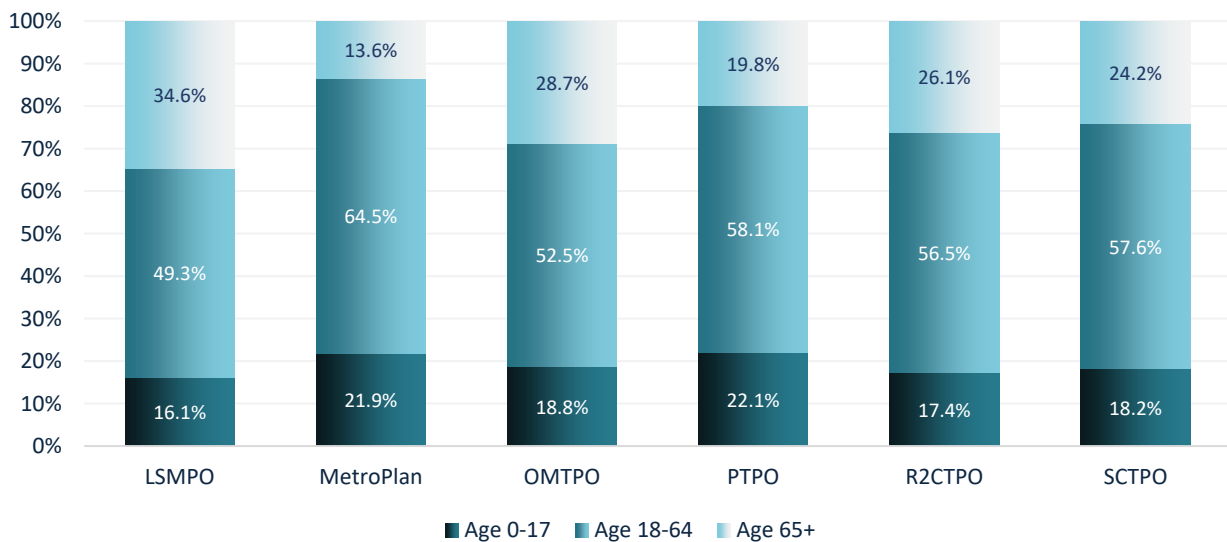
Median Household Income by TPO, 2021



Percent of Households Living in Poverty by TPO, 2021



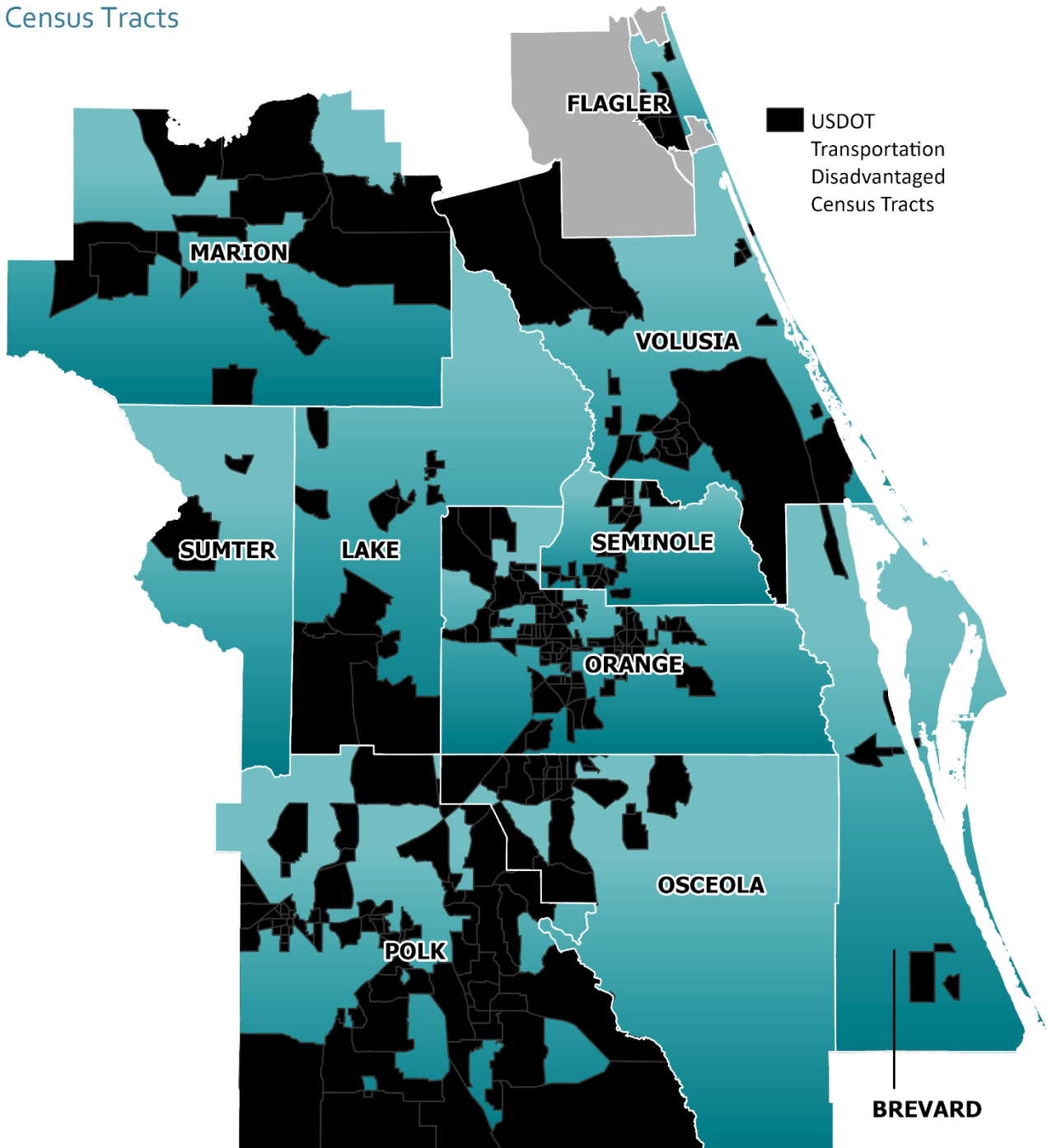
Age Range Breakdown by TPO, 2021



USDOT Transportation Disadvantaged Census Tracts

The U.S. Department of Transportation identifies Census Tracts as disadvantaged when the tract has high levels of risk associated with specified categories. These categories include low levels of transportation access, health disadvantages based on health outcomes, high levels of pollutants, economic disadvantages, resilience disadvantages, and areas with a shared history of discrimination.⁷ The map below depicts disadvantaged Census Tracts in black.

Transportation Disadvantaged Census Tracts



2.4 | Land Use & Urbanization

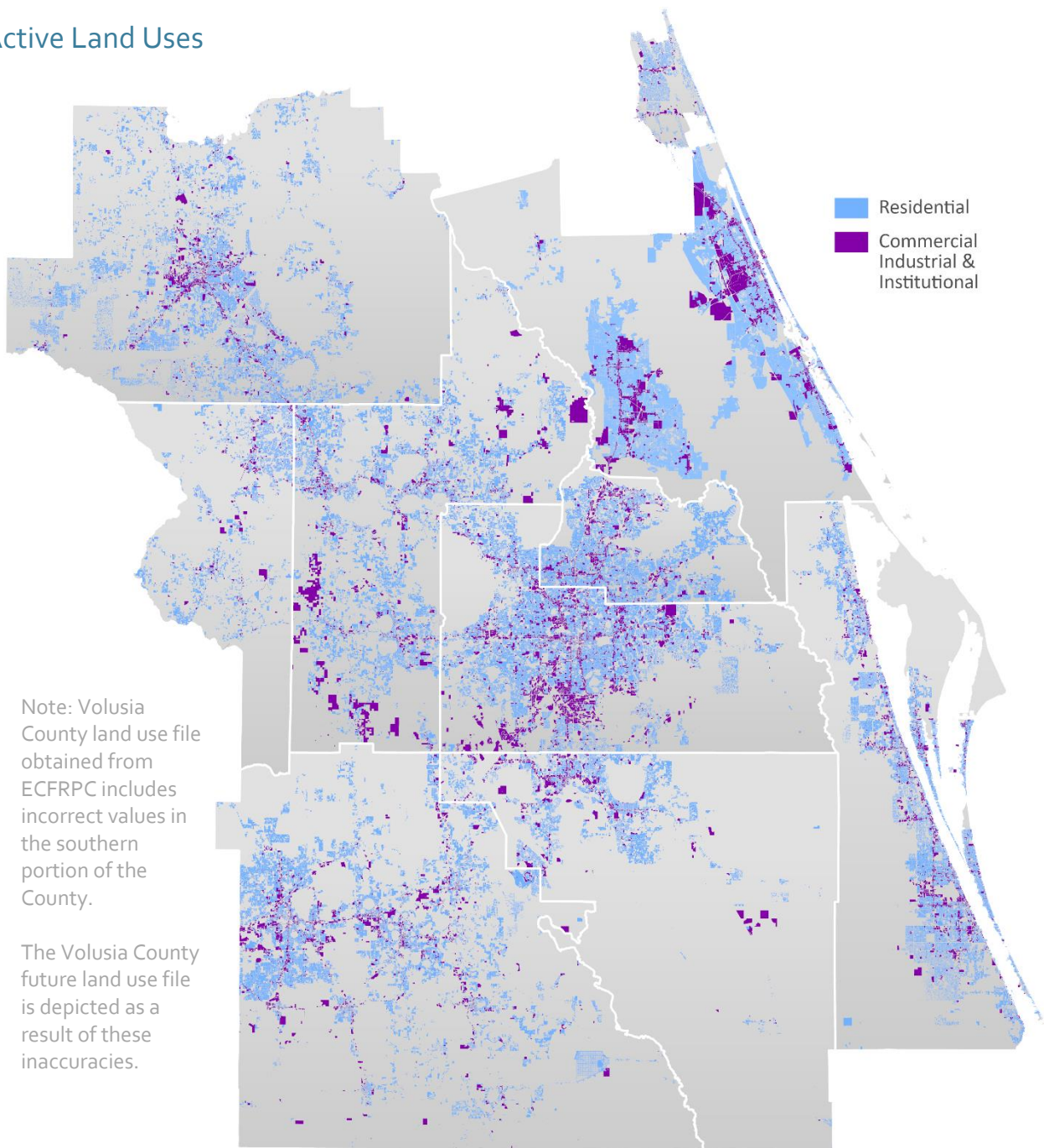
This section of the report analyzes land uses across three categories: active land uses, agricultural lands, and conservation lands.

Active Land Uses

Existing Land Use – Not Including Agricultural and Recreational Lands

The map below depicts active land uses in the Central Florida MPO Alliance region. Lodging, office, industrial, and institutional land uses are classified one land use type.⁸

Active Land Uses



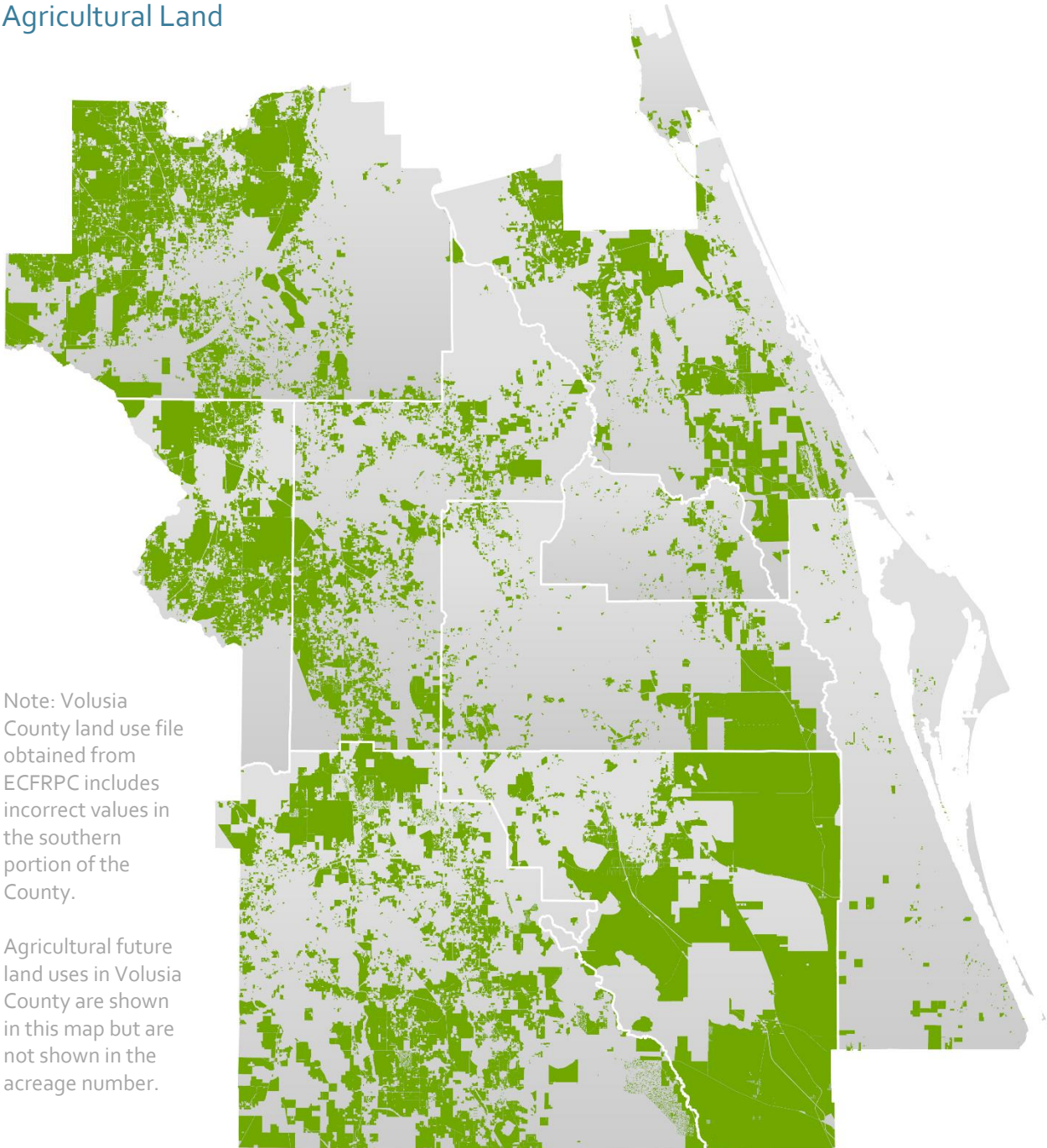
Agricultural Lands
Existing Land Use

The following map depicts agricultural areas in green.⁹ Regionwide, there are more than 2.2 million acres of agricultural land.

Lake-Sumter MPO: 374,747 Acres
MetroPlan Orlando: 715,995 Acres
Ocala Marion TPO: 415,225 Acres

Polk TPO: 577,819 Acres
River to Sea TPO: 148,491 Acres +
Space Coast TPO: 20,290 Acres

Agricultural Land



Note: Volusia County land use file obtained from ECFRPC includes incorrect values in the southern portion of the County.

Agricultural future land uses in Volusia County are shown in this map but are not shown in the acreage number.

Conservation Lands

Future Land Use

The following map depicts conservation areas in green.^{10, 11} Regionwide, there are more than 1.7 million acres of conservation land.

Lake-Sumter MPO: 357,234 Acres

MetroPlan Orlando: 207,194 Acres

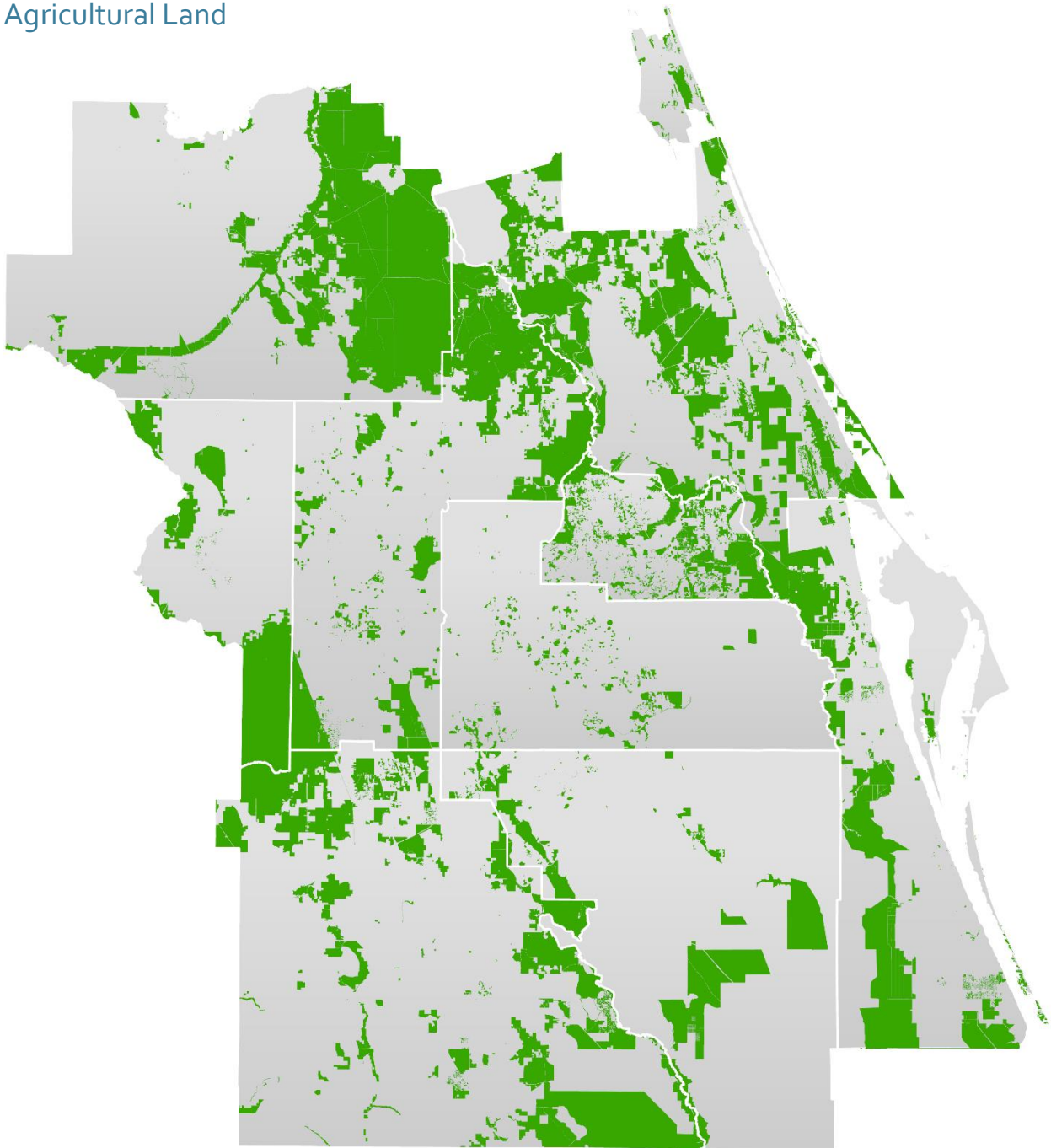
Ocala Marion TPO: 398,599 Acres

Polk TPO: 299,468 Acres

River to Sea TPO: 307,594 Acres

Space Coast TPO: 167,651 Acres

Agricultural Land



3 | Regional Assets

Section Outline

- 3.1: Land Assets
- 3.2: Air Assets
- 3.3: Sea Assets
- 3.4: Space Assets

3.1 | Land Assets

This section of the report provides detailed analysis of trends relating to land transportation assets that serve the Central Florida MPO Alliance region.

State Highway System

There are numerous categories of roadway analyzed in this report, including the National Highway System (NHS), the State Highway System (SHS), the Strategic Intermodal System (SIS), and the roadways included in the Florida Department of Transportation Road Classification Index (RCI). The RCI includes all roadways in the three aforementioned roadway classifications and is the most comprehensive network from an analytical perspective.

The table below summarizes the total number of State Highway System (SHS) miles present by TPO in the Central Florida MPO Alliance region.¹² Additional state and local system analytics are included in future sections of this report, in addition to Appendix 2.

State Highway System Lane Miles	2017	2018	2019	2020	2021	2017-21
	% Change					
Lake-Sumter MPO	1,184	1,197	1,249	1,254	1,259	6.3%
MetroPlan Orlando	3,236	3,250	3,334	3,343	3,370	4.1%
Ocala Marion TPO	935	936	944	942	942	0.7%
Polk TPO	1,669	1,669	1,671	1,682	1,682	0.8%
River to Sea TPO*	1,738	1,738	1,744	1,744	1,768	1.7%
Space Coast TPO	1,398	1,400	1,401	1,399	1,403	0.4%
CFMPOA Region	10,160	10,190	10,343	10,364	10,424	2.6%

Source(s): Florida Dept. of Transportation, Reports of Highway Mileage

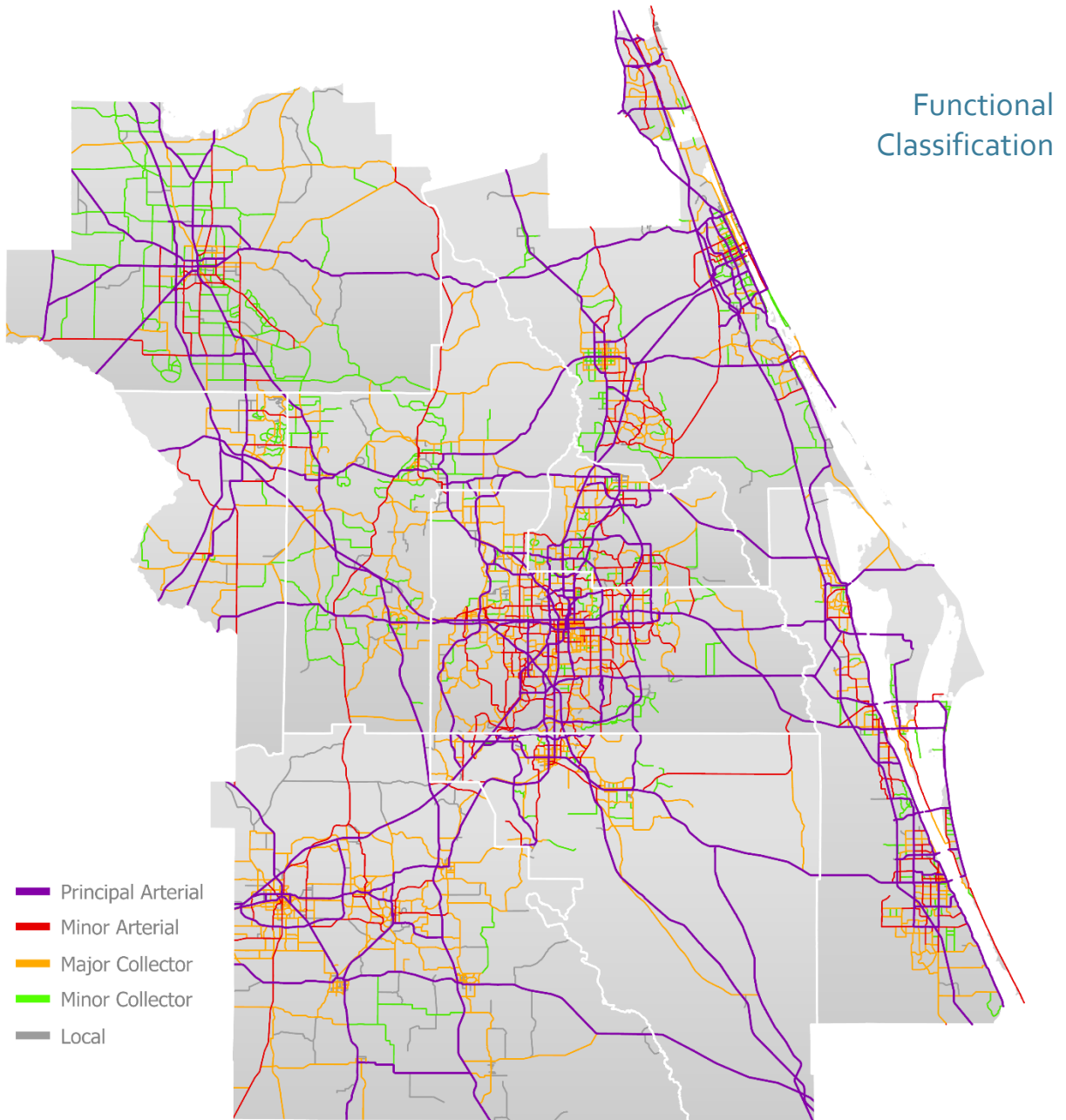
The maps on the following three pages of the report depict FDOT RCI roadways classified by the following metrics, with table summaries:

- Functional Classification¹³
- Annual Average Daily Traffic¹⁴
- Pavement Conditions¹⁵

FDOT Roadways – Functional Classification (FDOT RCI Roadways)

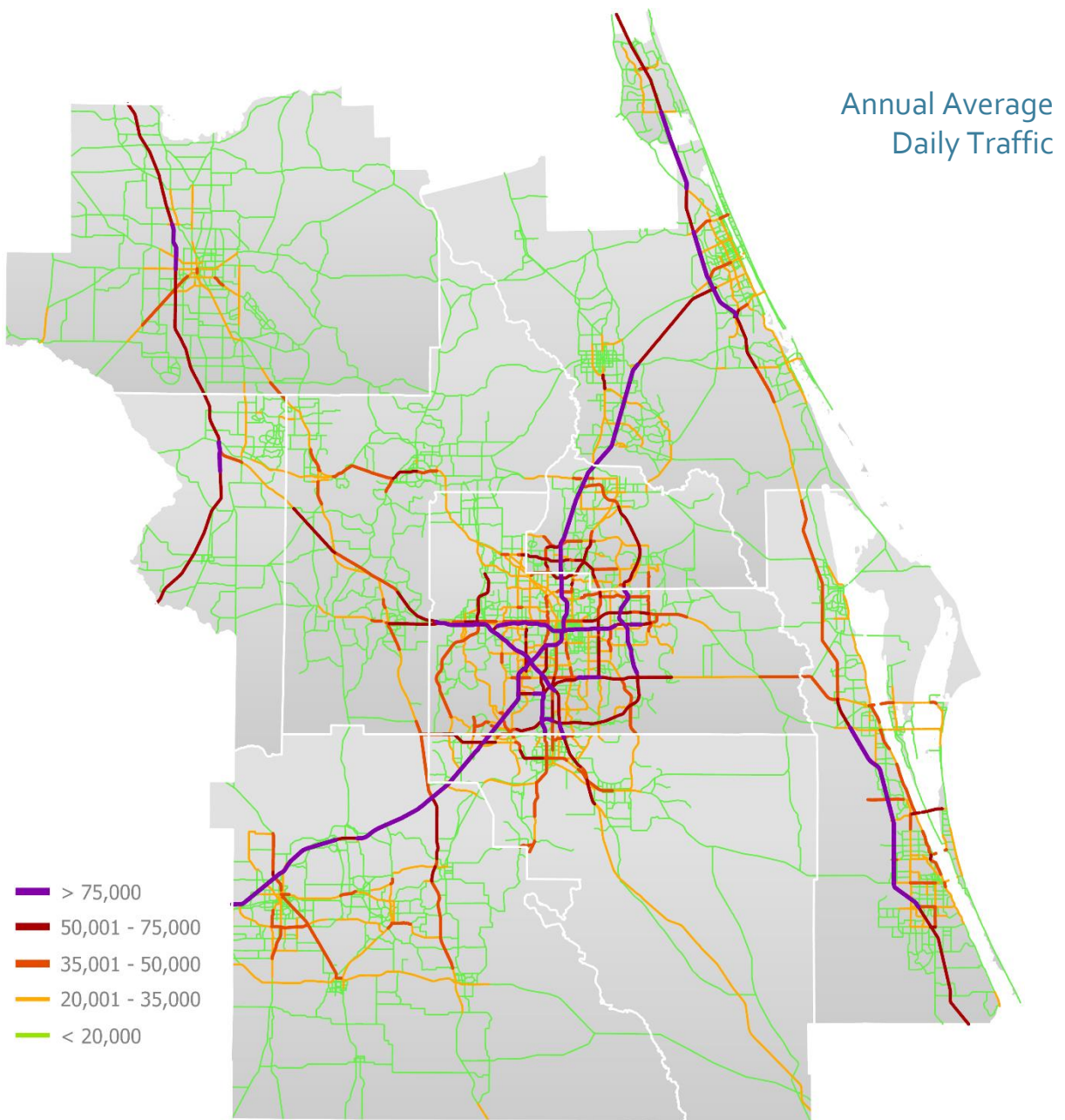
Functional Classification	Principal Arterial	Minor Arterial	Major Collector	Minor Collector
	Miles	Miles	Miles	Miles
Lake-Sumter MPO	273	136	404	250
MetroPlan Orlando	749	448	788	213
Ocala Marion TPO	223	130	192	409
Polk TPO	307	141	539	39
River to Sea TPO	403	186	251	218
Space Coast TPO	336	158	233	91
CFMPOA Region	2,291	1,199	2,407	1,220

*603 miles of “Local” roadways not included



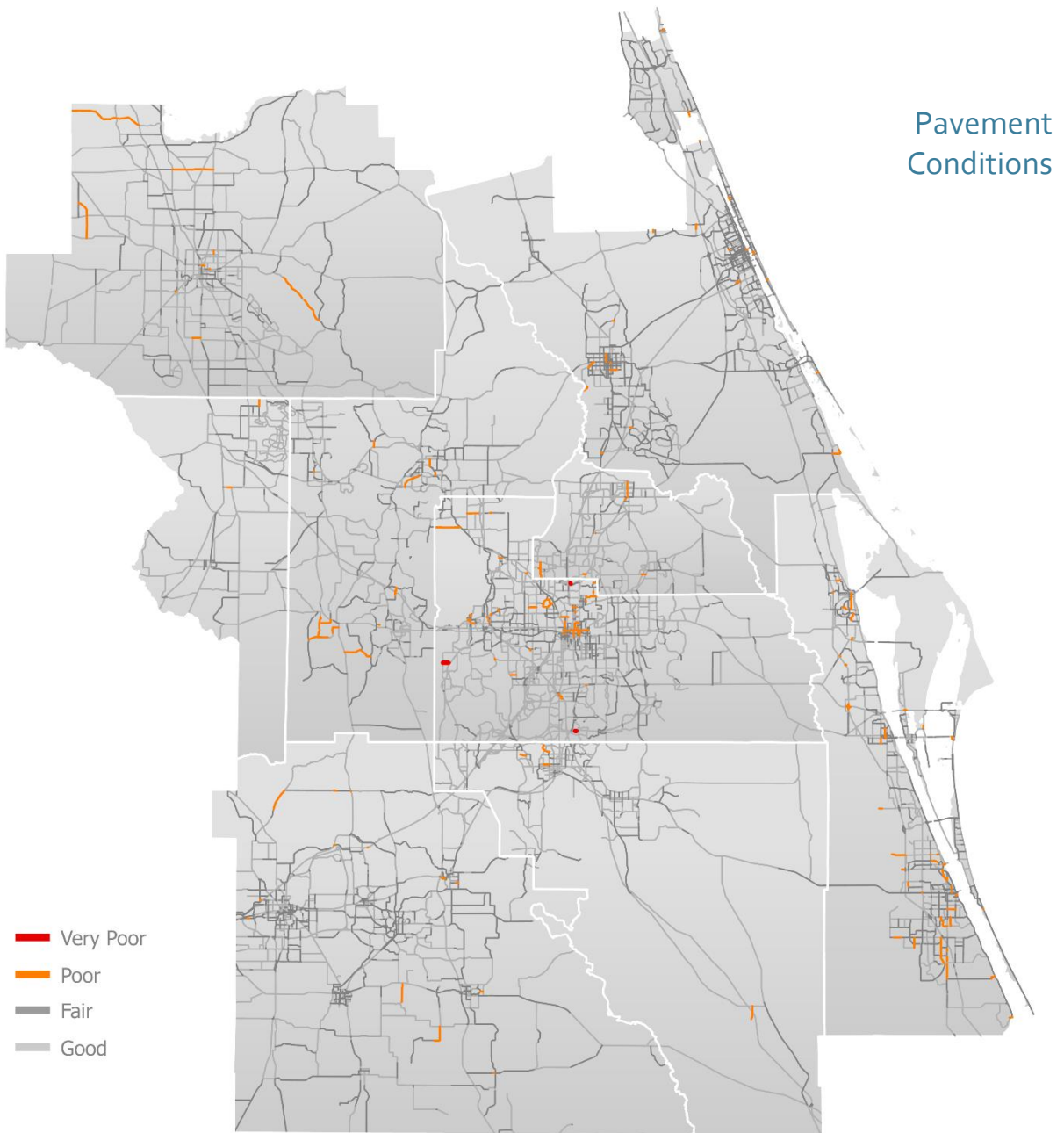
FDOT Roadways – Annual Average Daily Traffic (AADT) (FDOT RCI Roadways)

Daily Traffic	< 20,000	20,001 - 35,000	35,001 - 50,000	50,001 - 75,000	> 75,000
	Miles	Miles	Miles	Miles	Miles
Lake-Sumter MPO	918	84	41	47	4
MetroPlan Orlando	1,549	482	176	132	104
Ocala Marion TPO	871	72	12	33	5
Polk TPO	834	145	57	13	29
River to Sea TPO	913	144	16	42	36
Space Coast TPO	619	126	68	25	25
CFMPOA Region	5,704	1,053	370	292	203



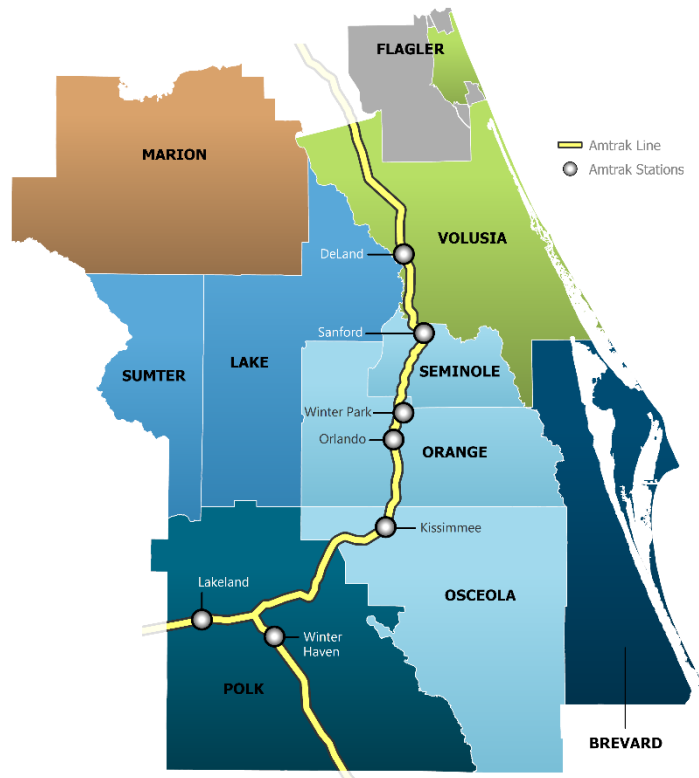
FDOT Roadways – Pavement Conditions (FDOT RCI Roadways)

Pavement Condition	Very Good	Good	Fair	Poor	Very Poor
	Miles	Miles	Miles	Miles	Miles
Lake-Sumter MPO	464	687	335	22	0
MetroPlan Orlando	1,160	2,091	585	38	1
Ocala Marion TPO	350	659	261	28	0
Polk TPO	66	1,062	608	10	0
River to Sea TPO	388	557	721	12	0
Space Coast TPO	328	521	425	35	0
CFMPOA Region	2,756	5,577	2,935	145	1



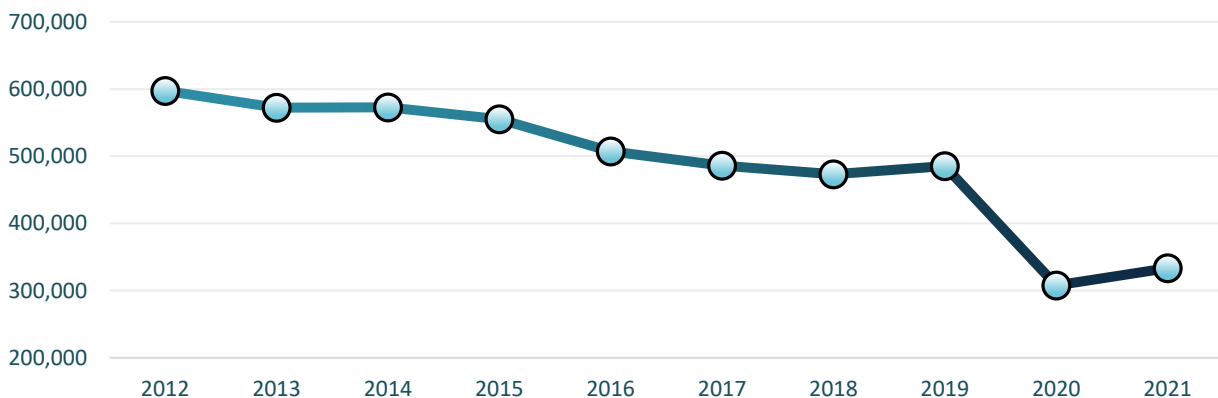
Amtrak

Amtrak serves the Central Florida MPO Alliance with seven stations that connect to cities throughout the state of Florida and the United States. The analysis in this section of the report summarizes Amtrak ridership in the Central Florida region from 2012 to 2021.¹⁶



Amtrak Ridership	2017	2018	2019	2020	2021
Station					
DeLand	20,827	20,677	20,453	12,338	10,433
Kissimmee	35,737	35,028	35,726	20,757	21,158
Lakeland	19,479	18,924	19,186	10,733	2,651
Orlando	133,248	127,326	127,186	72,267	73,327
Sanford	228,943	224,812	236,035	163,468	197,708
Winter Haven	20,598	20,503	19,757	13,321	15,227
Winter Park	27,253	25,844	27,047	14,828	12,993
CFMPOA Region	486,085	473,114	485,390	307,712	333,497

Amtrak Passengers in the Central Florida MPO Alliance Region
2012-2021

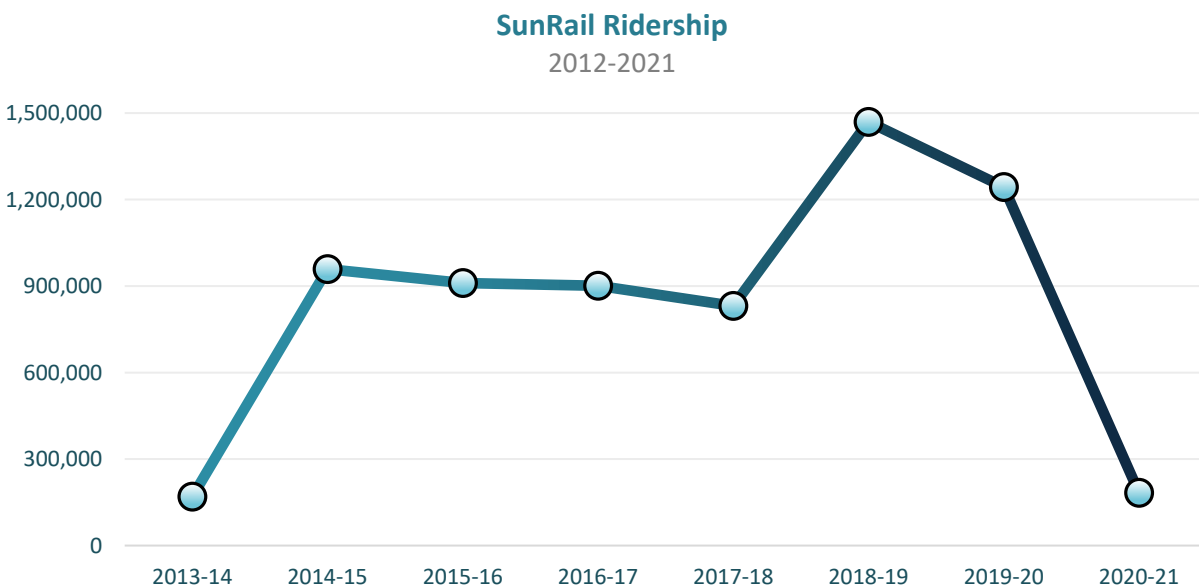


SunRail

SunRail serves Volusia, Seminole, Orange and Osceola Counties and began operations in 2014. Following partial service during fiscal year 2013-14, operations ramped up and annual passenger numbers stayed fairly consistent from fiscal year 2014-15 to fiscal year 2018-19. In fiscal year 2018-19, four new stations opened and ridership increased 77% year over year before plummeting in fiscal year 2020-21 as a result of the COVID-19 pandemic.¹⁷



SunRail Ridership	2016-17	2017-18	2018-19	2019-20	2020-21
Station					
Poinciana	Not Open	Not Open	82,854	74,954	10,621
Kissimmee	Not Open	Not Open	98,479	88,897	15,039
Tupperware	Not Open	Not Open	43,312	38,822	5,456
Meadow Woods	Not Open	Not Open	101,920	104,766	13,644
Sand Lake Road	107,691	101,178	75,379	57,659	9,188
Orlando Health	33,100	32,166	76,221	70,558	11,681
Church Street	100,215	95,524	168,870	139,179	10,594
LYNX	98,981	93,516	153,046	137,829	25,519
AdventHealth	49,664	49,244	87,164	74,175	13,324
Winter Park	95,429	81,590	128,932	97,760	12,619
Maitland	41,505	38,338	51,156	44,715	4,856
Altamonte Springs	61,388	56,033	69,467	56,191	9,886
Longwood	60,432	55,280	64,553	50,801	7,849
Lake Mary	85,440	75,131	85,969	68,219	8,997
Sanford	64,374	60,988	74,615	58,773	10,034
DeBary	102,937	92,472	107,717	80,265	13,787
Total SunRail Ridership	901,156	831,460	1,469,654	1,243,563	183,094



Bus Transit

Six bus transit agencies serve the Central Florida MPO Alliance region at different capacities. This portion of the report summarizes bus activity (annual revenue miles and revenue hours), vehicles at peak service, and transit usage (annual passenger miles and trips per capita).¹⁸



321 Transit	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	2,748,404	2,569,149	2,505,383	2,503,841	2,327,251
Revenue Hours	115,490	116,583	115,583	115,954	111,476
Peak Vehicles	74	75	70	66	74
Passenger Miles	18,850,305	16,730,819	15,900,372	15,559,236	11,395,341
Trips Per Capita	4.18	3.86	3.81	3.69	2.76

Source(s): Florida Dept. of Transportation

Citrus Connection Usage	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	1,372,618	1,378,277	1,457,881	1,465,800	1,654,747
Revenue Hours	89,104	90,759	92,634	89,311	99,561
Peak Vehicles	30	32	32	30	39
Passenger Miles	8,076,814	7,088,796	6,480,784	6,722,792	4,514,472
Trips Per Capita	4.18	4.01	1.67	1.68	1.09

Source(s): Florida Dept. of Transportation

Lake Xpress Usage	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	538,386	586,083	571,150	567,788	569,841
Revenue Hours	30,345	33,843	33,859	34,221	34,401
Peak Vehicles	10	10	10	10	10
Passenger Miles	2,094,737	2,162,788	2,132,469	2,137,828	1,672,249
Trips Per Capita	3.24	3.41	3.49	3.63	2.69

Source(s): Florida Dept. of Transportation

LYNX Usage	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	18,553,326	19,133,549	18,272,240	18,478,080	16,919,718
Revenue Hours	1,223,991	1,257,909	1,251,917	1,262,449	1,172,094
Peak Vehicles	435	455	457	471	460
Passenger Miles	143,072,210	147,579,931	146,678,748	155,663,432	94,773,252
Trips Per Capita	12.57	11.92	11.54	11.45	8.06

Source(s): Florida Dept. of Transportation

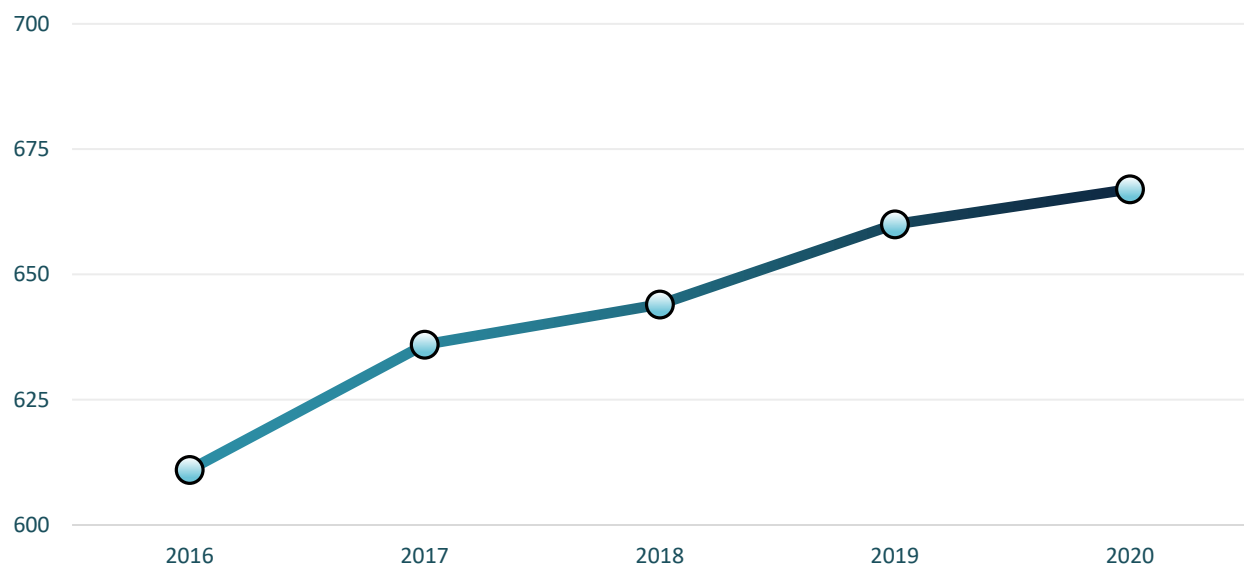
SunTran Usage	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	494,223	484,444	484,964	480,893	420,323
Revenue Hours	31,548	31,007	30,839	32,036	29,016
Peak Vehicles	6	6	6	7	7
Passenger Miles	2,242,744	2,146,425	2,181,109	1,979,804	N/A
Trips Per Capita	6.43	6.34	6.44	5.84	3.97

Source(s): Florida Dept. of Transportation

Votran Usage	2016	2017	2018	2019	2020
Usage Metrics					
Revenue Miles	2,686,975	2,877,059	3,147,083	3,412,477	3,326,989
Revenue Hours	172,630	180,728	197,698	208,295	210,226
Peak Vehicles	56	58	69	76	77
Passenger Miles	13,180,744	13,833,524	14,044,942	14,382,669	10,975,197
Trips Per Capita	6.57	6.46	6.50	6.42	4.99

Source(s): Florida Dept. of Transportation

Peak Vehicles Utilized, All CFMPOA Bus Transit Providers
2016-2020

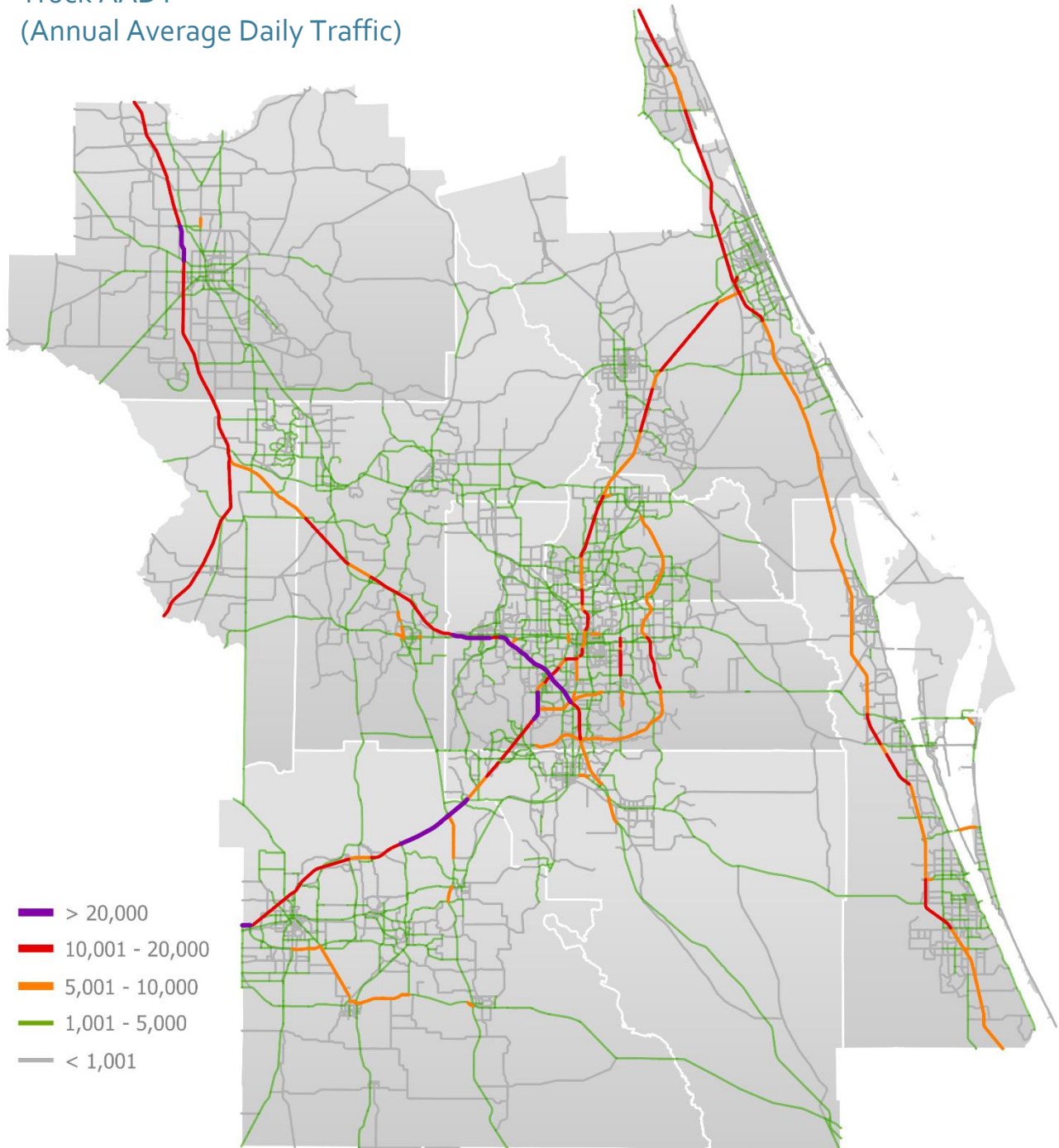


Freight Movement on Highways

Numerous high-capacity roadways run through the Central Florida MPO Alliance region with semi-trucks carrying goods across the state and nation. Major corridors include Interstate-95, Interstate-4, Interstate 75, Florida's Turnpike, State Road 417, and numerous other state and county roads.

The map below depicts the highest-volume trucking corridors in the Central Florida MPO Alliance region, color coded by annual average daily truck traffic.¹⁹

Truck AADT (Annual Average Daily Traffic)

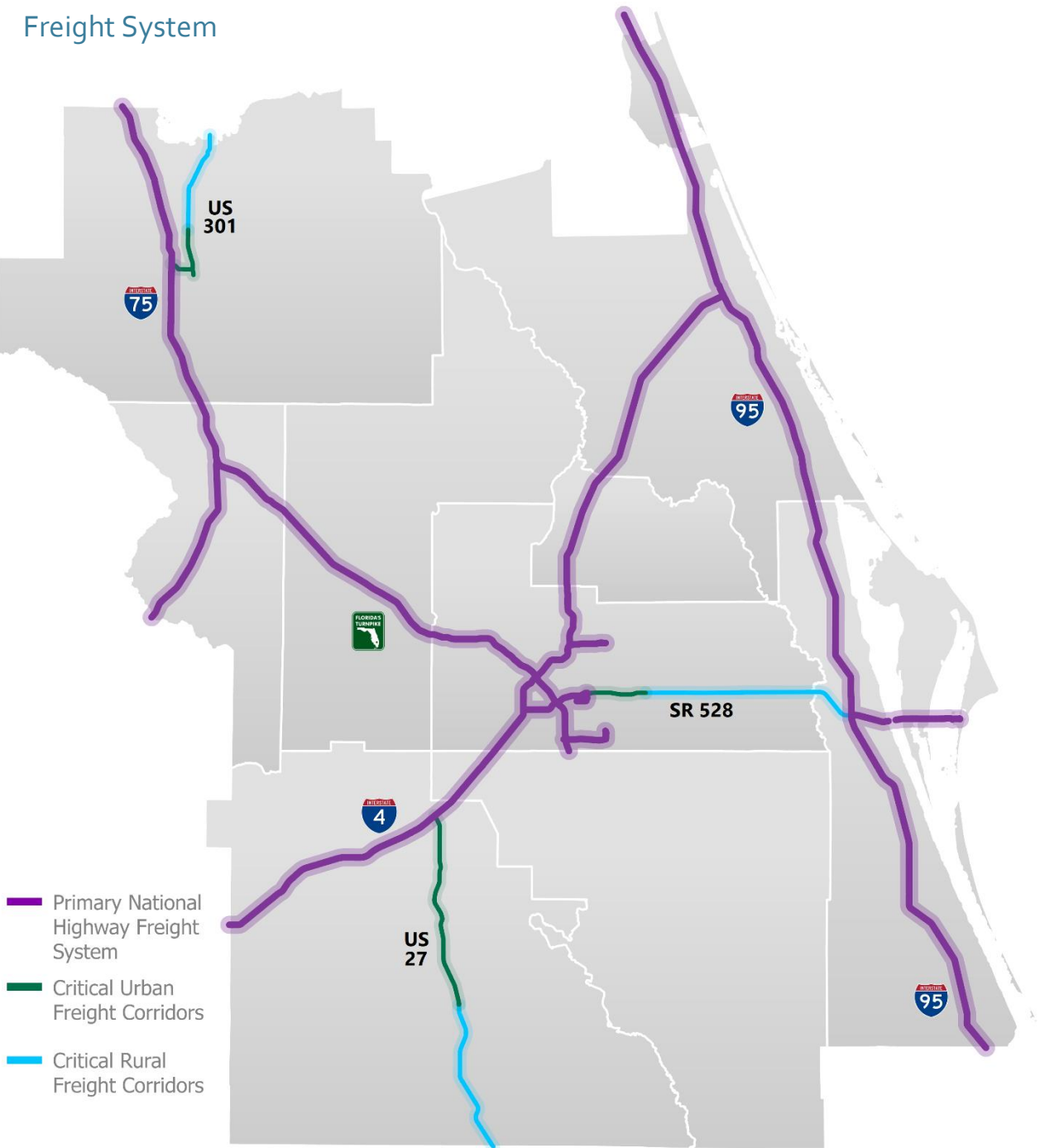


National Freight Corridors

The Federal Highway Administration's national freight network, depicted in the map below, closely aligns with the daily truck volumes depicted in the map on the previous page.

Critical corridors within the Central Florida MPO Alliance region that are a part of this system include Interstate-95, Interstate-75, Interstate-4, Florida's Turnpike, State Road 528, U.S. Highway 27, U.S. Highway 301, and other corridors within the core of the Orlando Metro Area. The map below depicts the three major classifications of freight networks as defined by FHWA.²⁰

FHWA Freight System

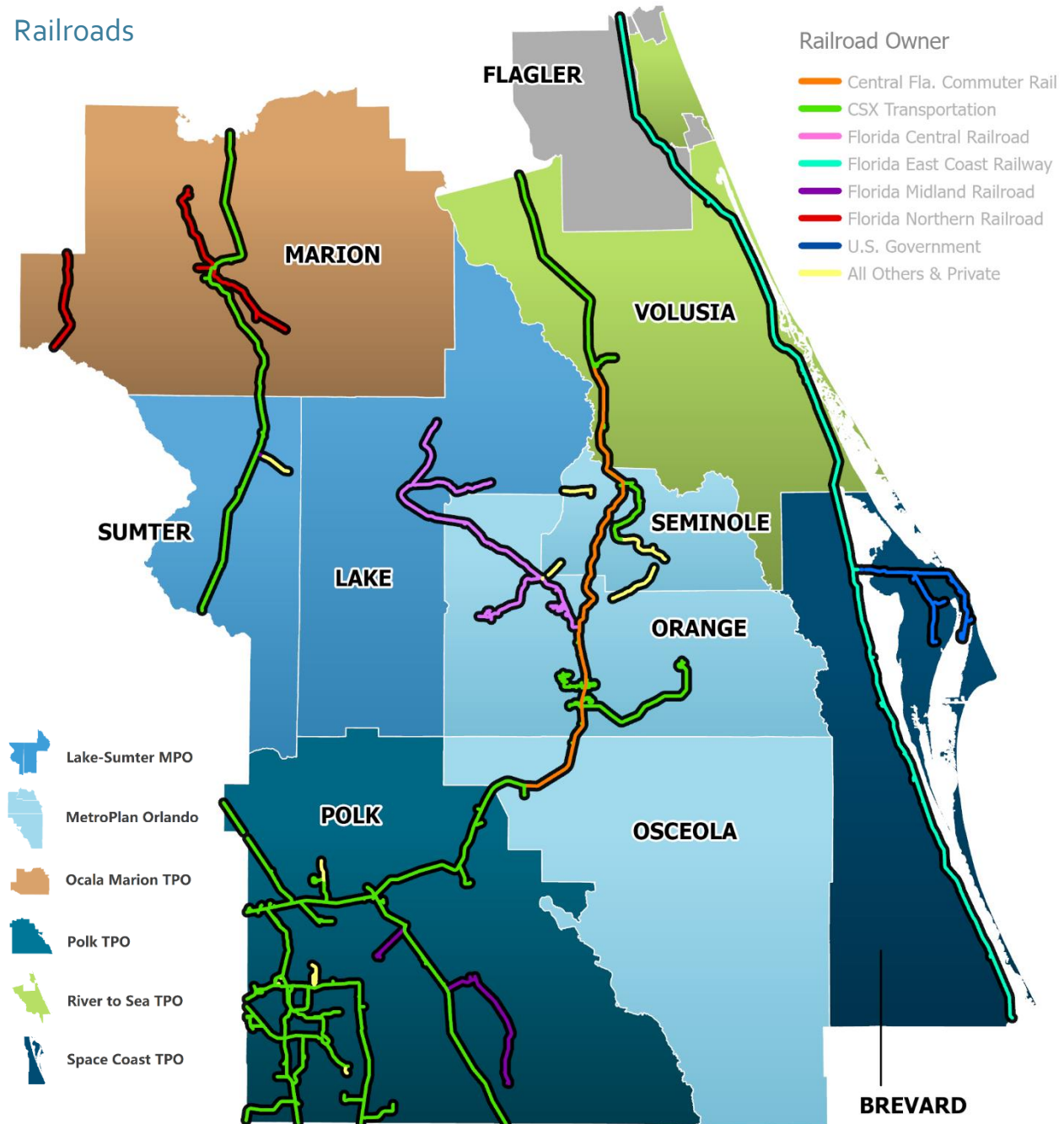


Railroads

The map below depicts railroads in the Central Florida MPO Alliance region.²¹ The primary railroad in the region is the Florida East Coast Railway, which travels from Jacksonville to Miami and is shown on the far east side of the map below. This railway is not directly connected to the region's other railways, as many segments have been discontinued over the last 100 years.

CSX Transportation is the owner and operator of the vast majority of the other railroads in the region, as seen traversing in the map below through Lake, Marion, Orange, Osceola, Polk, Seminole, Sumter and western Volusia Counties. Smaller segments of railroad are owned and operated by other third parties.

Railroads



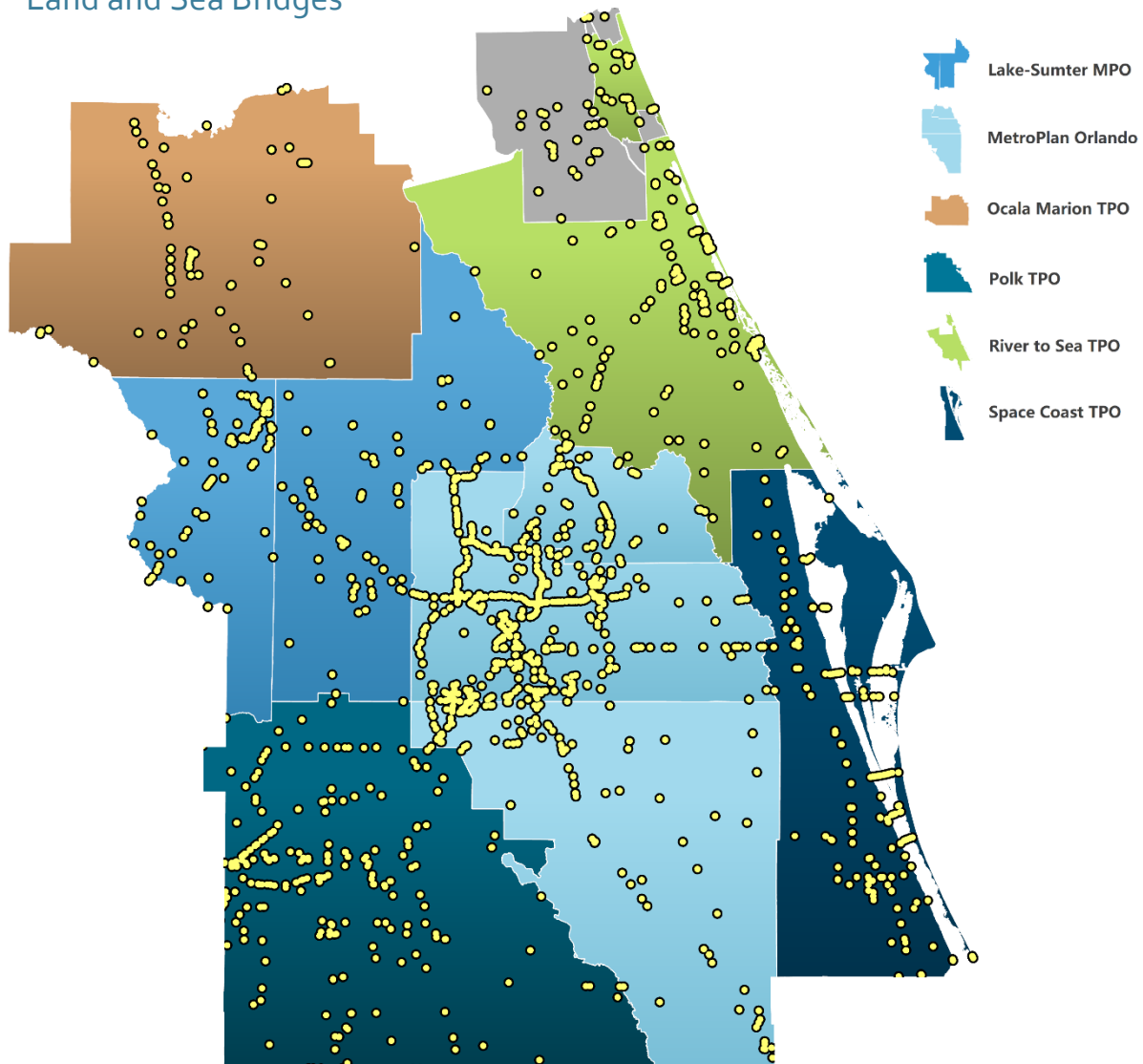
Bridges

The table below provides summary statistics on land-and-sea-bridges in the Central Florida MPO Alliance region.²² The map depicts these bridges in yellow.

Bridges	Number of Bridges	Bridge Miles	Avg. Bridge Miles
Lake-Sumter MPO	180	6.83	0.04
MetroPlan Orlando	997	54.05	0.05
Ocala Marion TPO	68	3.50	0.05
Polk TPO	257	8.67	0.03
River to Sea TPO*	203	15.05	0.07
Space Coast TPO	185	14.32	0.08
CFMPOA Region	1,890	102.42	0.05

Source(s): Florida Dept. of Transportation

Land and Sea Bridges



Brightline

Beginning in mid-2023, Brightline will provide high speed rail service between south Florida and Orlando International Airport. Following this initial phase, service is preliminarily planned to connect to the Tampa Bay region to the west. The expansion from Orlando International Airport to Tampa Bay will include a station at Walt Disney World, providing the first ever multi-modal connection between the two visitation hot spots.²³

brightline

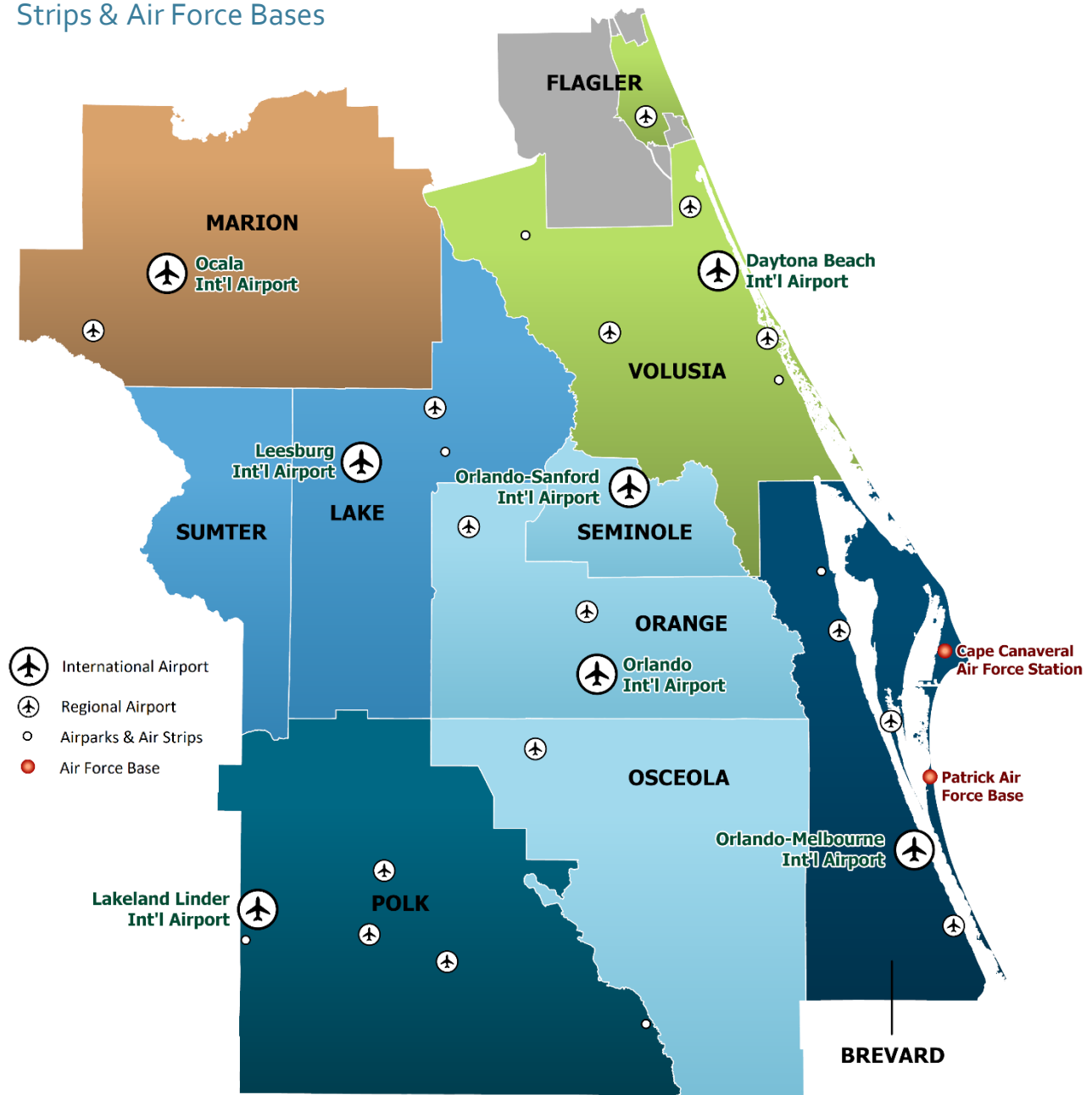


Image Source: Brightline

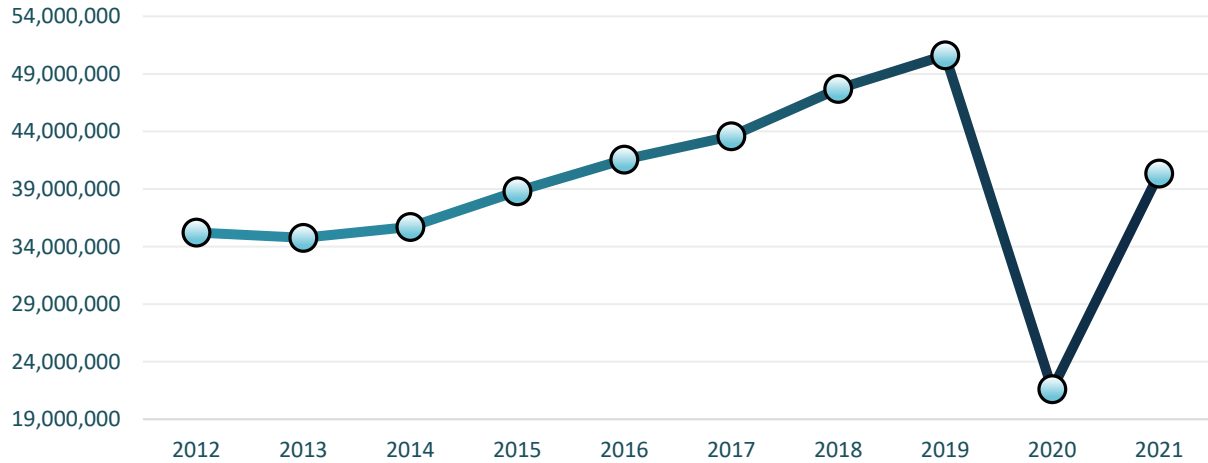
3.2 | Air Assets

The Central Florida MPO Alliance region has seven international airports, headlined by Orlando International Airport, one of the busiest airports in the U.S. In addition, the region has 15 municipal/regional airports and two air force bases utilized by the U.S. Military. The map on this page depicts these air assets, by type, and the tables on the following pages provide summaries on passenger volumes for the region's four largest international airports.²⁴

Airports, Airparks, Air Strips & Air Force Bases



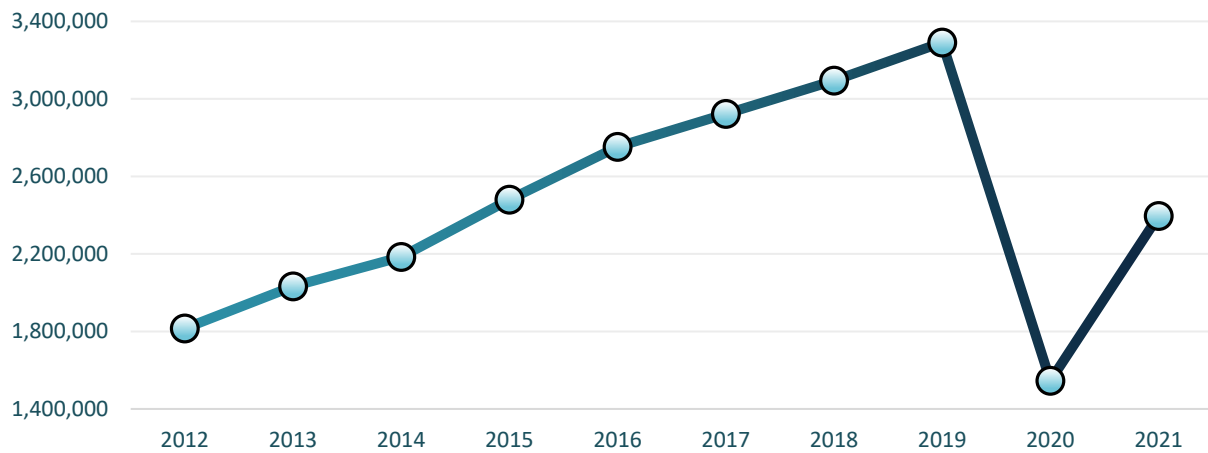
Orlando International Airport Annual Passengers 2012-2021



Orlando	2017	2018	2019	2020	2021
Total Passengers	43,591,361	47,696,627	50,617,412	21,617,803	40,351,068
Tons of Cargo	248,267	260,305	285,964	247,063	245,147
Departure Reliability %	78%	77%	77%	85%	N/A

Source(s): Federal Aviation Administration; U.S Bureau of Transportation Statistics; Orlando International Airport (2022)

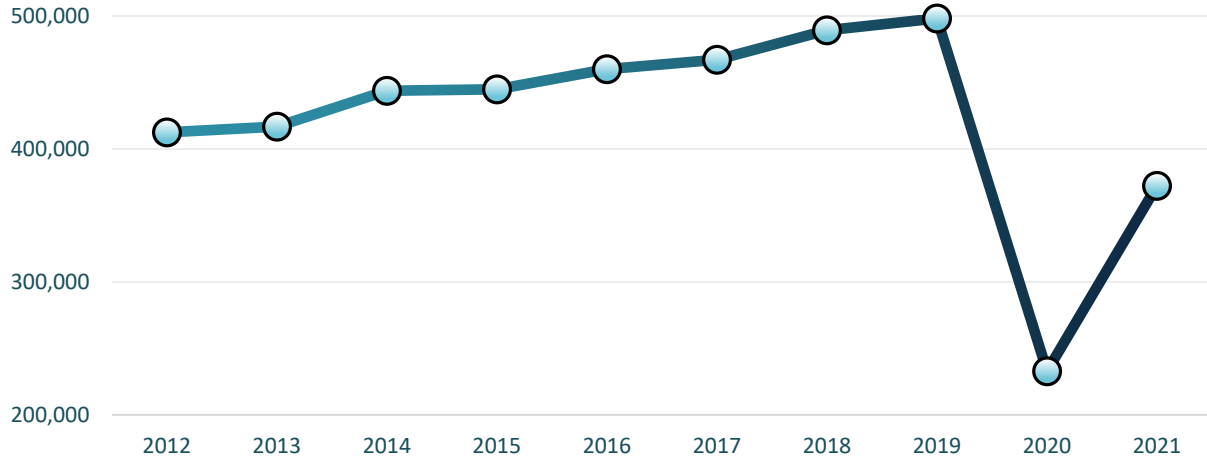
Orlando-Sanford International Airport Annual Passengers 2012-2021



Orlando-Sanford	2017	2018	2019	2020	2021
Total Passengers	2,922,446	3,094,487	3,291,112	1,545,041	2,396,108
Tons of Cargo	415	225	685	30	0
Departure Reliability %	N/A	79%	83%	72%	N/A

Source(s): Federal Aviation Administration; U.S Bureau of Transportation Statistics; Orlando-Sanford International Airport (2022)

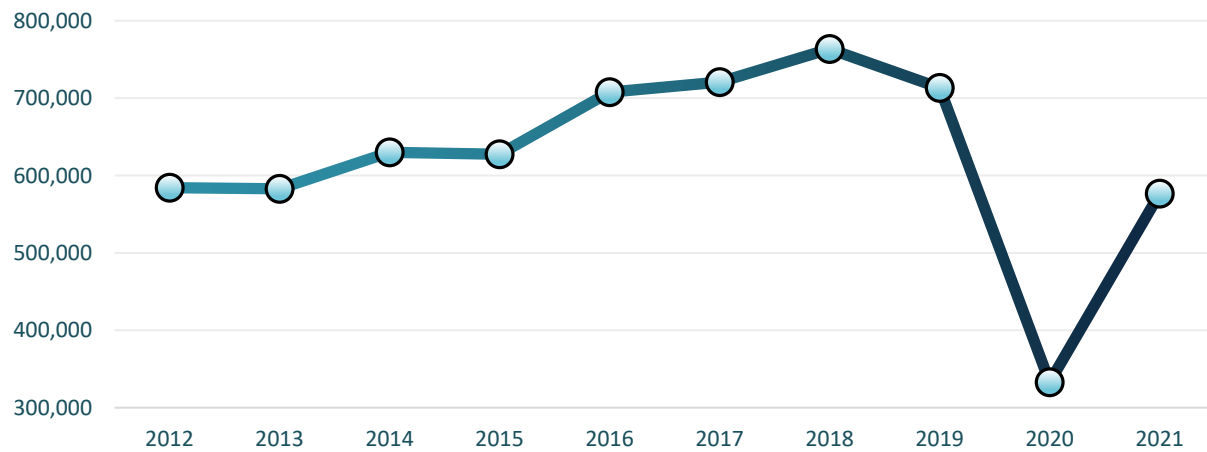
Orlando-Melbourne International Airport Annual Passengers 2012-2021



Orlando-Melbourne	2017	2018	2019	2020	2021
Total Passengers	467,096	489,240	498,184	232,832	372,287
Tons of Cargo	75	93	33	0	0
Departure Reliability %	86%	87%	86%	87%	N/A

Source(s): Federal Aviation Administration; U.S Bureau of Transportation Statistics; Orlando-Melbourne International Airport (2022)

Daytona Beach International Airport Annual Passengers 2012-2021



Daytona Beach	2017	2018	2019	2020	2021
Total Passengers	720,825	763,538	713,287	332,835	576,637
Tons of Cargo	130	97	61	11	1
Departure Reliability %	84%	82%	85%	87%	N/A

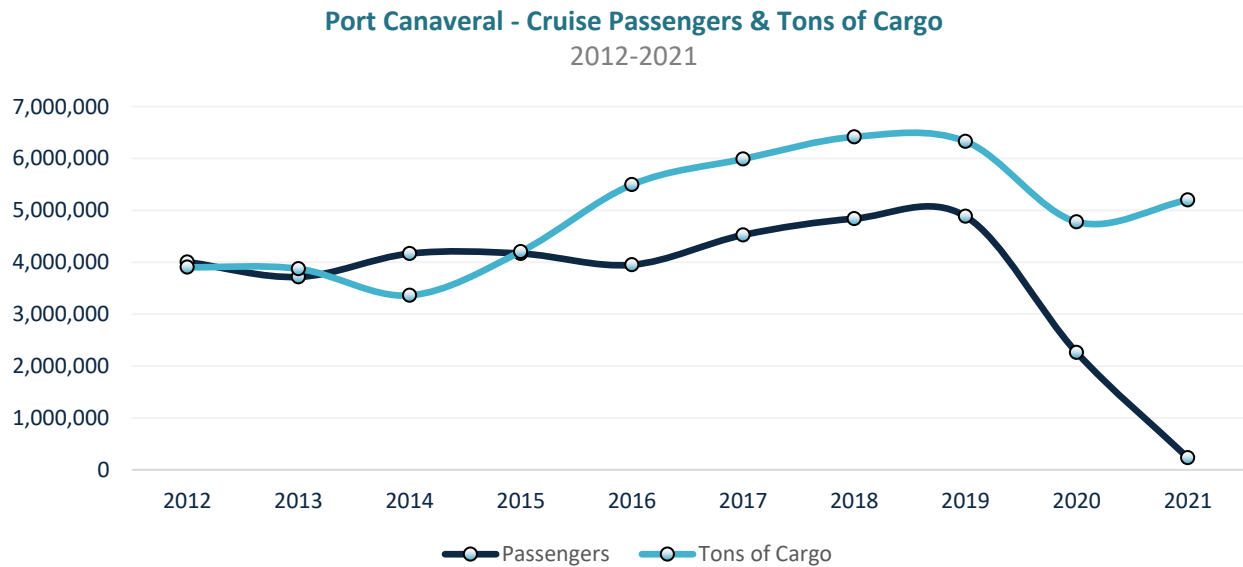
Source(s): Federal Aviation Administration; U.S Bureau of Transportation Statistics; Daytona Beach International Airport (2022)

3.3 | Sea Assets

Port Canaveral is a major port that moves cargo and cruise passengers to and from the central Florida coast. The port is the second busiest cruise terminal in the world, serving millions of cruise passengers per year.²⁵ With the onset of the COVID-19 pandemic, the global cruise industry came to a halt, decreasing the number of cruise passengers embarking from Port Canaveral by more than 90% from 2020 to 2021. The table and chart below summarize the number of cruise passengers and tons of cargo that have used Port Canaveral, by year.²⁶

Port Canaveral	2017	2018	2019	2020	2021
Total Passengers	4,526,626	4,841,003	4,885,314	2,387,526	233,216
Tons of Cargo	5,990,735	6,417,125	6,329,095	4,778,369	5,202,534

Source(s): Florida Seaport Transportation and Economic Development (FSTED) Council; Port Canaveral



3.4 | Space Assets

Kennedy Space Center is among the most unique assets of the Central Florida MPO Alliance region. Since the 1960's, NASA has used the site to launch spacecraft, satellites, cargo and astronauts into space and to the International Space Station. The site has seen a recent resurgence of launch activity, with 130 launches occurring since 2017. In 2021, 8 astronauts were launched into space, ending a multiyear period of no astronauts being launched into space from the United States following the cancellation of the space shuttle program. The table below summarizes the number of astronauts launched into space and the total number of completed launches, by year.²⁷

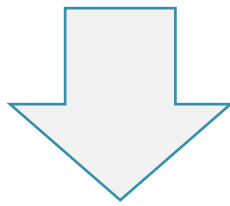
Space Launches	2017	2018	2019	2020	2021
Humans Launched	0	0	0	0	8
Completed Launches	19	20	18	31	42

Source(s): Space Florida

4 | Mega Trends

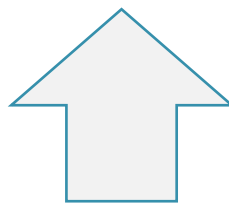
Section Outline

- 4.1: Safety Concerns
- 4.2: Air Quality
- 4.3: Transportation System Usage, Reliability & Congestion
- 4.4: E-Commerce & Remote Work
- 4.5: Electric Vehicles & Fuel Consumption
- 4.6: Autonomous Vehicles



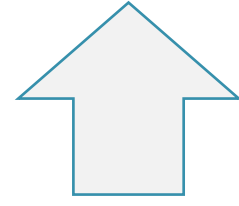
-5.1%

Annual Automobile-Involved
Crashes – Fatal & Non-Fatal
(2017 – 2021)



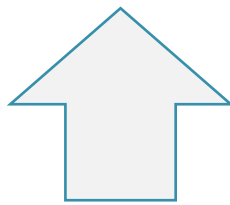
+2.7%

Total Annual Vehicle Miles
Traveled (VMT)
(2017 – 2021)



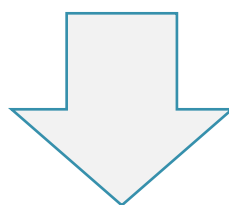
+10.3%

Percent of Retail Purchases
Made Online
(2013 – 2022)



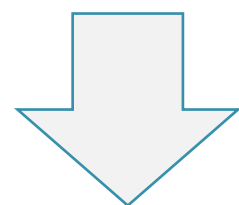
+1.3%

Annual Bicyclist-and-
Pedestrian-Involved Crashes
(2017 – 2021)



-7.9%

Average Ozone Levels at
Regional Monitoring Stations
(2017 – 2021)



-3.1%

Annual Gasoline Consumption
in Gallons
(2017 – 2021)

4.1 | Safety Concerns

This section of the report provides detailed tables, charts and maps summarizing automobile-involved crashes in the Central Florida MPO Alliance region from 2012 through 2021. The analyses are broken down by crash type. Crash types include 1) automobile-involved crashes, 2) fatal automobile-involved crashes, 3) bicyclist-and-pedestrian-involved crashes, and 4) fatal bicyclist-and-pedestrian-involved crashes. Crash summaries are further broken down by total number of crashes by County and TPO.

Automobile-Involved Crashes

The tables and chart below summarize automobile-involved crash statistics in the Central Florida MPO Alliance region. The region saw a moderate increase from 2012 to 2019 before a drop in 2020, likely as a result of lower traffic volumes due to COVID-19.²⁸

Automobile-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Brevard County	15,379	15,181	15,172	13,360	15,255	74,347
Flagler County*	1,962	2,080	2,374	2,181	2,372	10,969
Lake County	7,988	8,179	8,413	7,228	8,404	40,212
Marion County	10,277	9,423	9,565	8,439	9,976	47,680
Orange County	51,411	52,879	51,876	35,959	41,797	233,922
Osceola County	11,637	11,990	12,333	8,792	11,475	56,227
Polk County	17,444	17,864	18,243	16,433	19,790	89,774
Seminole County	14,185	14,706	14,592	11,032	12,512	67,027
Sumter County	3,022	3,131	3,073	2,662	3,327	15,215
Volusia County	15,017	15,314	15,721	13,632	15,856	75,540
CFMPOA Region	148,322	150,747	151,362	119,718	140,764	710,913

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

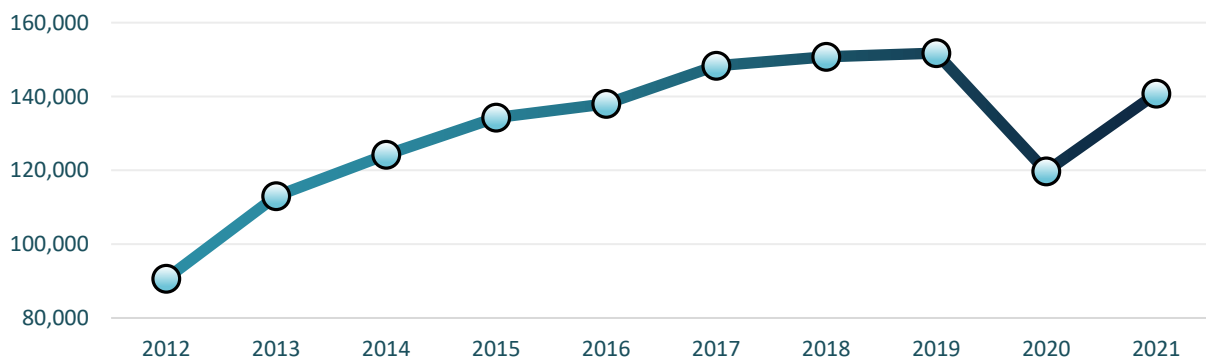
Source(s): Signal 4 Analytics

Automobile-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Lake-Sumter MPO	11,010	11,310	11,486	9,890	11,731	55,427
MetroPlan Orlando	77,233	79,575	78,801	55,783	65,784	357,176
Ocala Marion TPO	10,277	9,423	9,565	8,439	9,976	47,680
Polk TPO	17,444	17,864	18,243	16,433	19,790	89,774
River to Sea TPO*	16,979	17,394	18,095	15,813	18,228	86,509
Space Coast TPO	15,379	15,181	15,172	13,360	15,255	74,347

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics

Automobile-Involved Crashes in the Central Florida MPO Alliance Region, 2012-2021



Fatal Automobile-Involved Crashes

The tables and chart below summarize fatal automobile-involved crash statistics in the Central Florida MPO Alliance Region. Notably, fatal crashes did not decrease proportionally to the decrease in total crash numbers from 2019 to 2020.²⁸

Fatal Auto.-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Brevard County	81	79	74	74	96	404
Flagler County*	27	14	10	23	16	90
Lake County	45	60	53	52	55	265
Marion County	83	79	82	94	84	422
Orange County	174	167	163	167	202	873
Osceola County	51	62	66	49	49	277
Polk County	108	110	117	122	171	628
Seminole County	46	34	43	34	33	190
Sumter County	21	23	22	22	26	114
Volusia County	123	102	119	128	136	608
CFMPOA Region	759	730	749	765	868	3,871

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

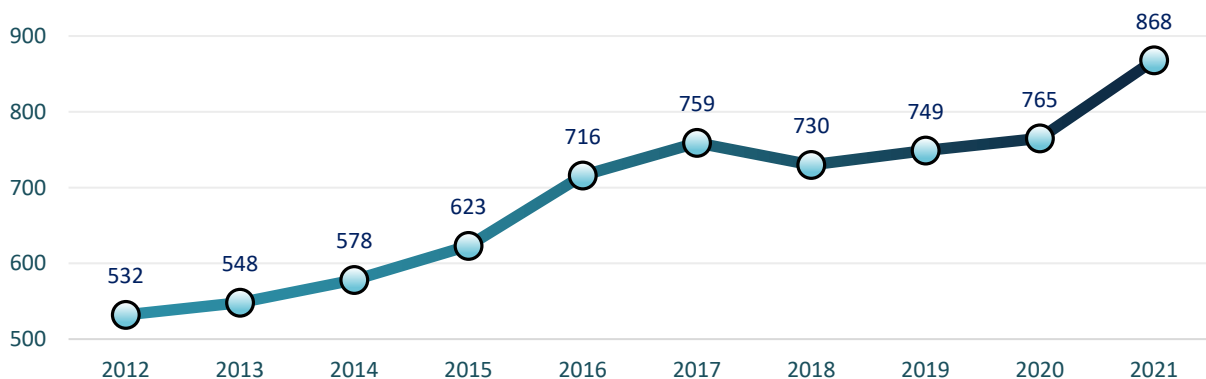
Source(s): Signal 4 Analytics

Fatal Auto.-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Lake-Sumter MPO	66	83	75	74	81	379
MetroPlan Orlando	271	263	272	250	284	1,340
Ocala Marion TPO	83	79	82	94	84	422
Polk TPO	108	110	117	122	171	628
River to Sea TPO*	150	116	129	151	152	698
Space Coast TPO	81	79	74	74	96	404

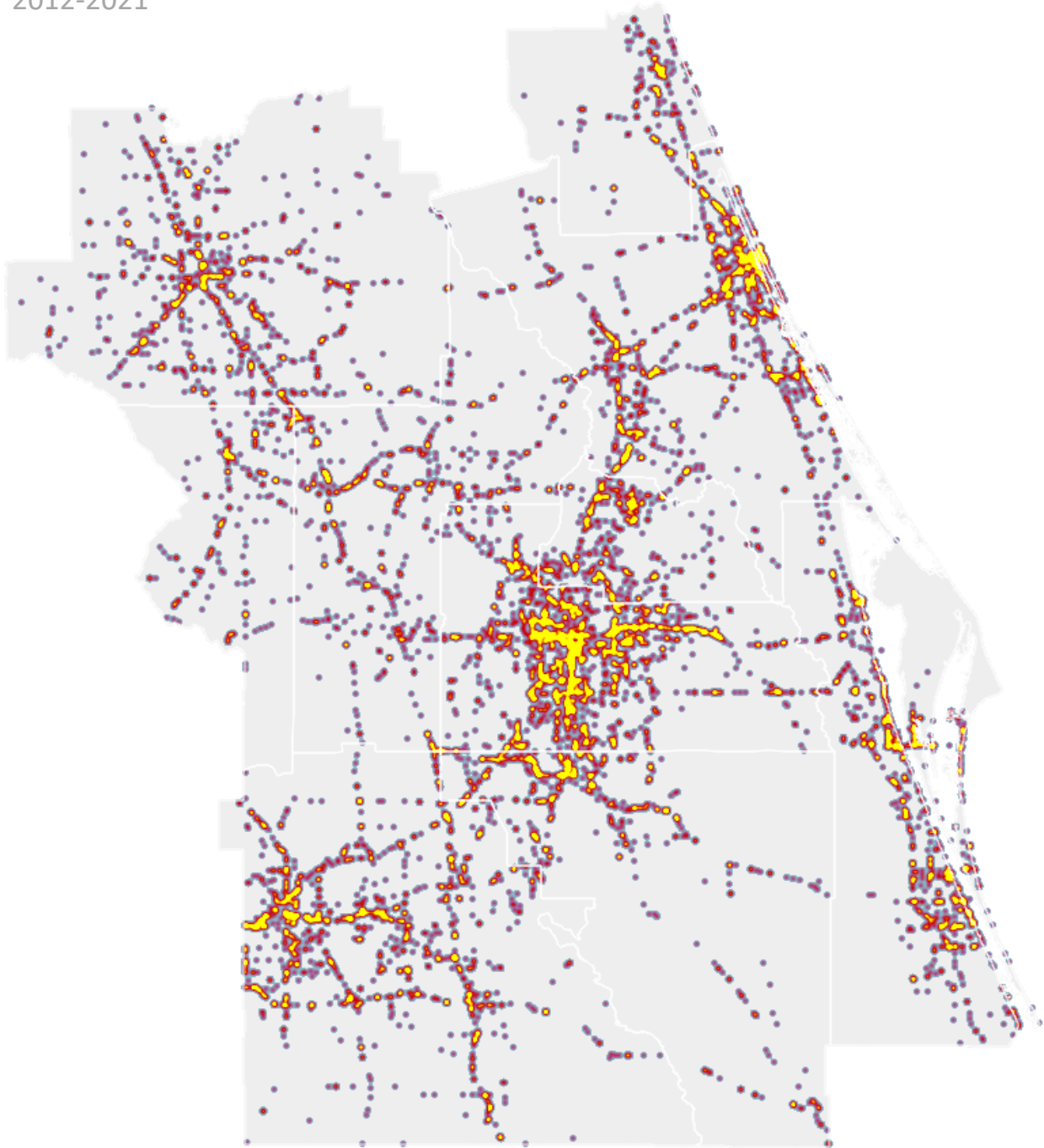
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics

Fatal Automobile-Involved Crashes in the Central Florida MPO Alliance Region, 2012-2021



Fatal Automobile-Involved
Crash Hot Spots
2012-2021



Bicyclist-and-Pedestrian-Involved Crashes

The tables and chart below summarize bicyclist-and-pedestrian-involved crashes in the Central Florida MPO Alliance region. Overall, there has been a general uptrend in the region since 2012, with a slight decrease in 2016 and a sharp decrease in 2020.²⁸

Bike-Ped-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Brevard County	525	548	508	480	528	2,589
Flagler County*	49	59	70	66	74	318
Lake County	194	173	204	196	221	988
Marion County	242	214	251	218	211	1,136
Orange County	1,305	1,299	1,293	994	1,091	5,982
Osceola County	245	246	279	232	262	1,264
Polk County	511	508	549	505	560	2,633
Seminole County	313	329	343	327	386	1,698
Sumter County	45	50	60	71	81	307
Volusia County	554	592	578	536	621	2,881
CFMPOA Region	3,983	4,018	4,135	3,625	4,035	19,796

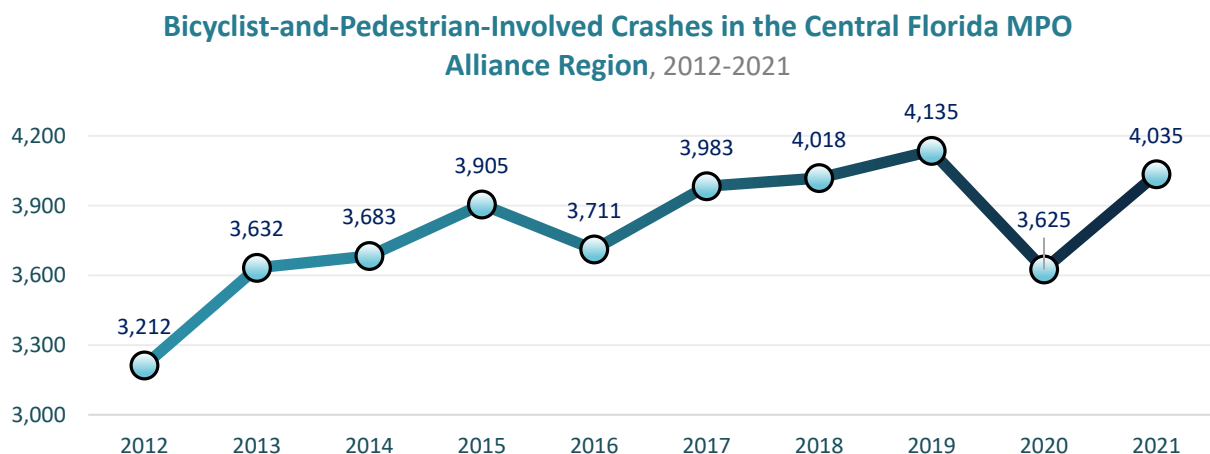
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics

Bike-Ped-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Lake-Sumter MPO	239	223	264	267	302	1,295
MetroPlan Orlando	1,863	1,874	1,915	1,553	1,739	8,944
Ocala Marion TPO	242	214	251	218	211	1,136
Polk TPO	511	508	549	505	560	2,633
River to Sea TPO*	603	651	648	602	695	3,199
Space Coast TPO	525	548	508	480	528	2,589

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics



Fatal Bicyclist-and-Pedestrian-Involved Crashes

The tables and chart below summarize fatal bicyclist-and-pedestrian-involved crashes in the Central Florida MPO Alliance region. Overall, the trend is increasing and nearly doubled from 2012 to 2021.²⁸

Fatal Bike-Ped-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Brevard County	26	19	20	19	34	118
Flagler County*	3	2	1	3	3	12
Lake County	6	13	16	11	7	53
Marion County	20	15	22	24	22	103
Orange County	70	60	66	52	86	334
Osceola County	16	12	21	13	7	69
Polk County	20	25	29	29	36	139
Seminole County	17	8	13	13	10	61
Sumter County	1	5	3	4	5	18
Volusia County	31	36	29	37	37	170
CFMPOA Region	210	195	220	205	247	1,077

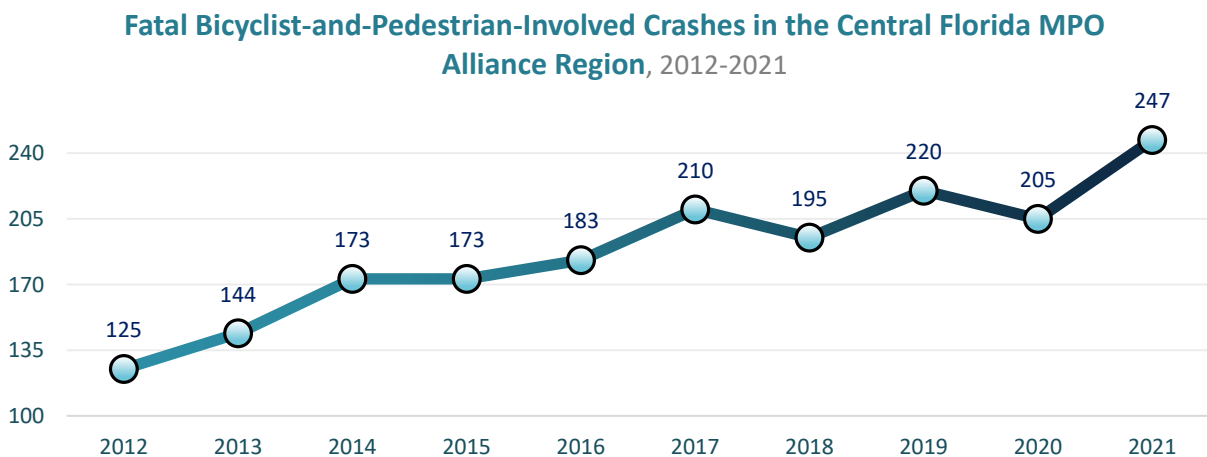
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics

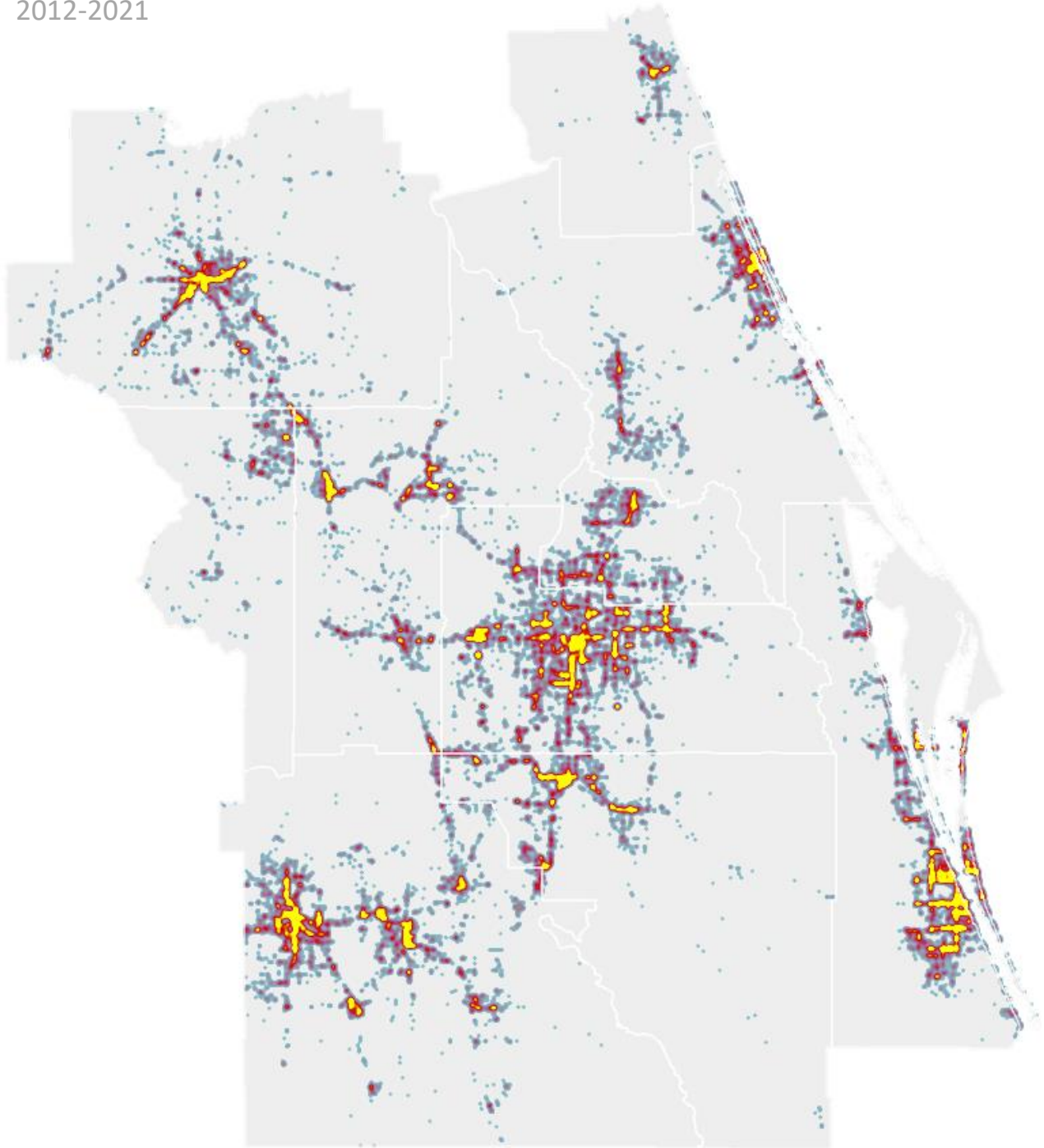
Fatal Bike-Ped-Involved Crashes	2017	2018	2019	2020	2021	Total
2017-2021						
Lake-Sumter MPO	7	18	19	15	12	71
MetroPlan Orlando	103	80	100	78	103	464
Ocala Marion TPO	20	15	22	24	22	103
Polk TPO	20	25	29	29	36	139
River to Sea TPO*	34	38	30	40	40	182
Space Coast TPO	26	19	20	19	34	118

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Signal 4 Analytics



Bicycle-and-Pedestrian
Involved Crash Hot Spots
2012-2021



4.2 | Air Quality

Air pollution is associated with several health issues, including asthma, heart disease, and cancer. Ground-level ozone, for which motor vehicle emissions are a primary source, is an important issue to stakeholders in the Central Florida region.

In 2015, the Environmental Protection Agency (EPA) revised the standard for ozone from 75 parts per billion to 70 parts per billion during any eight-hour period. An area is considered as nonattainment (not meeting the standard) if the average of the annual fourth-highest ozone readings at any monitoring site for the three-year period equals or exceeds the 70 parts per billion standard.²⁹

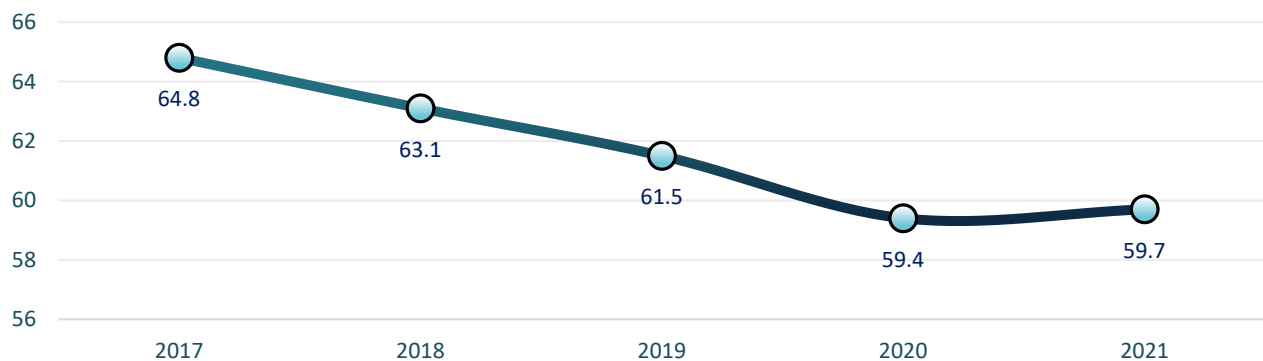
The following table shows the fourth-highest eight-hour average reading, shown in parts per billion, for ozone monitoring sites in the Central Florida MPO Alliance Region from 2017 through 2021. The chart shows an overall downward trend in ozone levels from 2017 to 2021.²⁹

Ozone Levels (Parts Per Billion)	2017	2018	2019	2020	2021	Average
Melbourne (Brevard)	61	55	48	58	59	56.2
Freedom 7 Elementary (Brevard)	61	64	58	58	59	60.0
Sawgrass Road, Bunnell (Flagler)	60	60	56	53	56	57.0
1901 Johns Lake Road (Lake)	68	65	67	62	60	64.4
Ocala YMCA (Marion)	64	62	62	61	63	62.4
County Impound (Marion)	59	62	59	57	58	59.0
Lake Isles Estates (Orange)	65	63	65	62	60	63.0
Four Corners (Osceola)	67	67	72	60	62	65.6
Sikes Elementary (Polk)	72	65	66	61	61	65.0
Baptist Children's Home (Polk)	71	66	67	62	59	65.0
Seminole State (Seminole)	67	64	62	60	62	63.0
Daytona Blind Service (Volusia)	62	64	56	59	57	59.6
Average	64.8	63.1	61.5	59.4	59.7	61.7

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Department of Environmental Protection

Average Ozone Levels, CFMPOA Region Monitoring Stations, 2017-2021

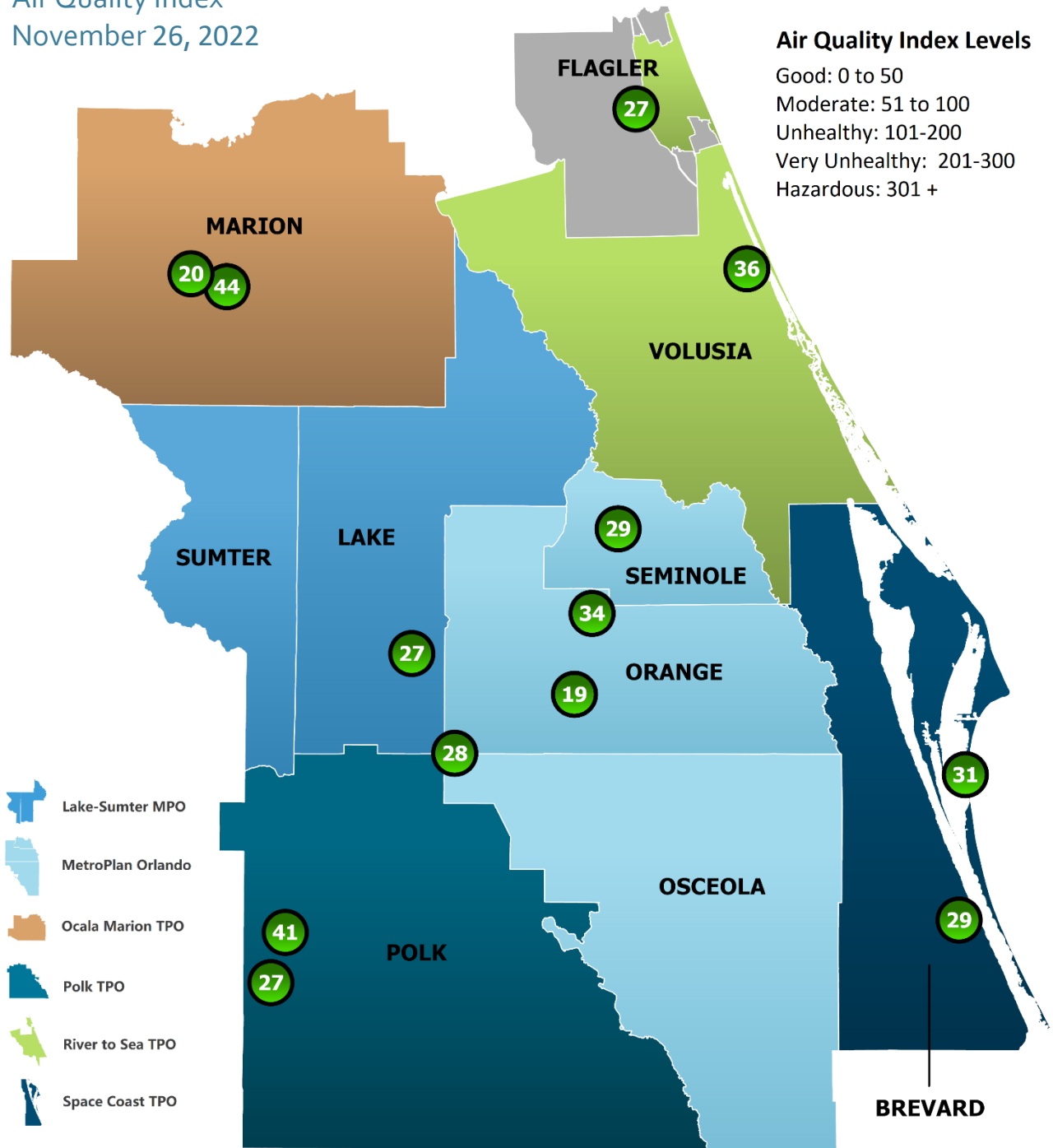


Air Quality Index (AQI)

The Air Quality Index (AQI) is a 0 to 500 score that measures overall air quality from air quality monitoring stations around the United States. The national standard for 'satisfactory' air quality as part of this index is a score of 100. The Air Quality Index measures five major air pollutants that are regulated by the Clean Air Act. These pollutants include ground-level ozone, particle pollution (PM 2.5 and PM 10), carbon monoxide, sulfur dioxide, and nitrogen dioxide.

The map below shows the Air Quality Index for 13 monitoring stations in the Central Florida MPO Alliance region as of November 26, 2022.³⁰

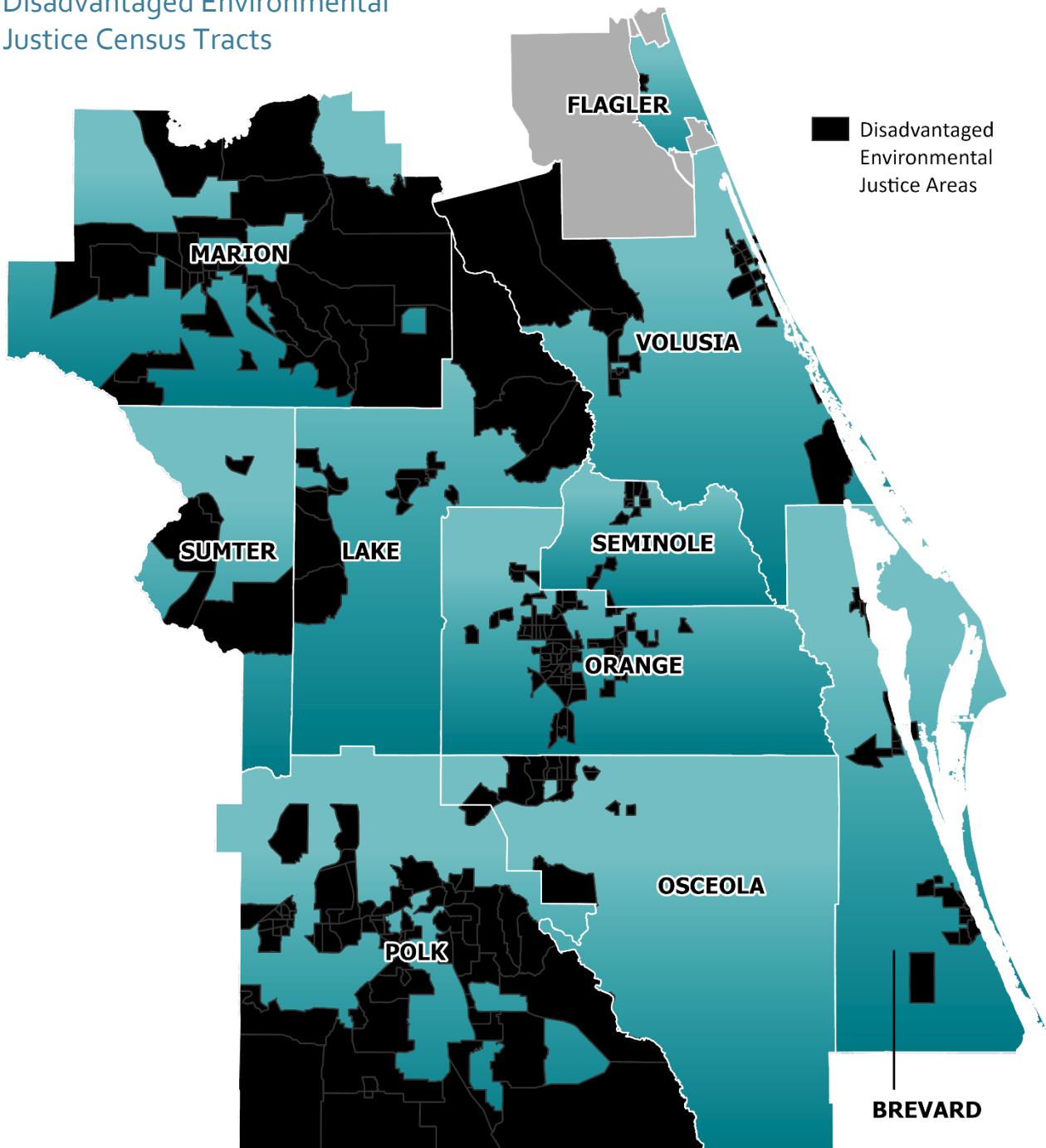
Air Quality Index
November 26, 2022



Environmental justice Areas (EJA's)

Environmental Justice Areas are part of the Federal Government's Justice 40 Initiative, which aims to direct 40% of the benefits of specified Federal Government investments to areas that are underserved, marginalized, and burdened by pollution. Environmental Justice Areas are areas that have been identified for environmental justice investment using a multi-faceted analysis of demographic and environmental conditions. The following map depicts the Central Florida MPO Alliance region's Environmental Justice Areas in black.³¹

Disadvantaged Environmental Justice Census Tracts



4.3 | Transportation System Usage, Reliability & Congestion

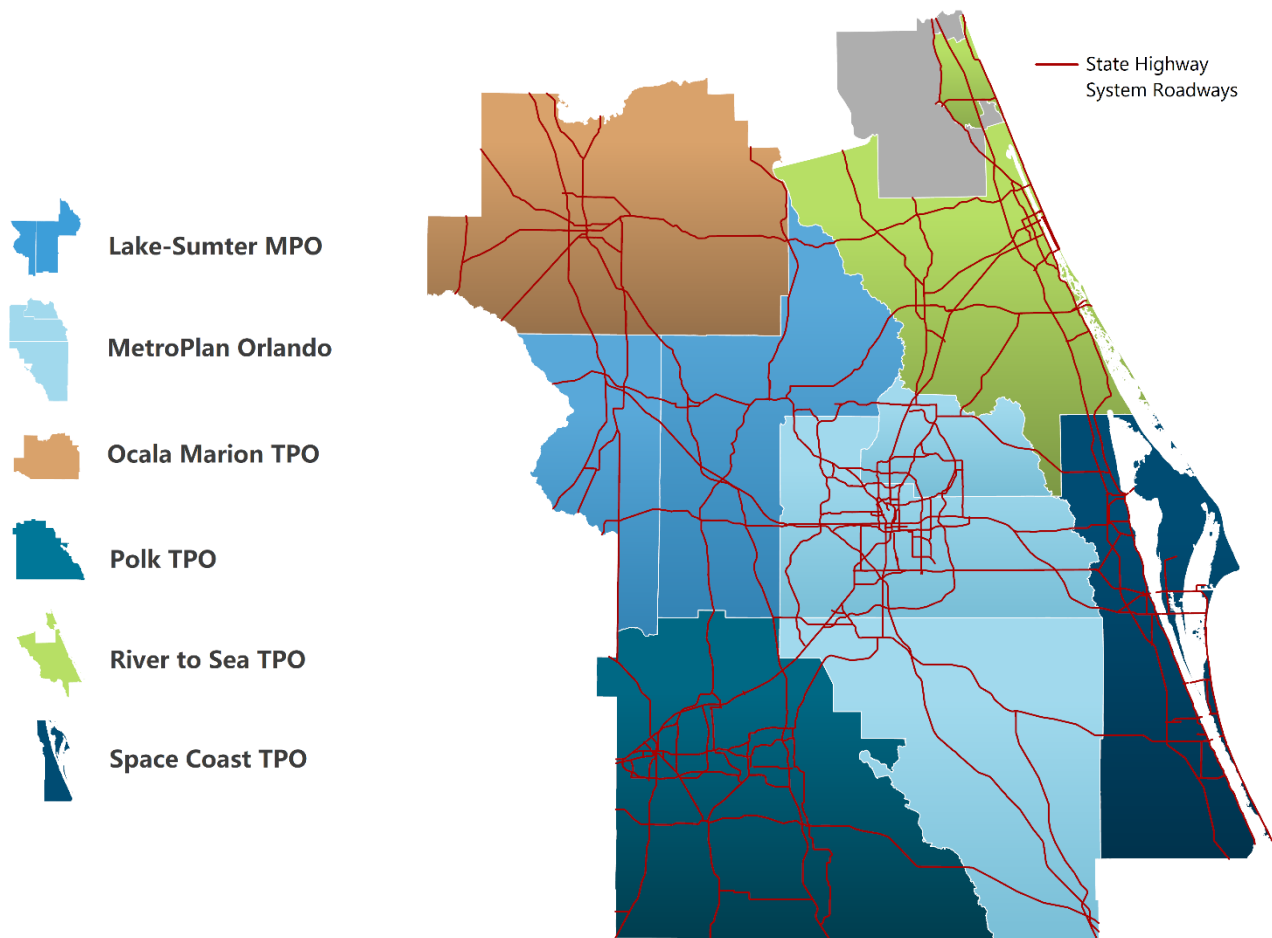
This chapter of the report provides analysis on trends impacting the overall reliability and experience that residents and visitors encounter on the state highway system.

Transportation Usage, Reliability & Congestion Indicators

The Florida Department of Transportation Source Book was used to compile information on the Central Florida MPO Alliance region's roadway network. The seven indicators below are included in this section of the report.

- Vehicle Miles Traveled
- Vehicle Hours of Delay
- Planning Time Index
- Percent of Travel that is Heavily Congested
- Percent of Roadway Miles Heavily Congested
- Percent of the Time Roadways are Heavily Congested
- Duration of Congestion in Minutes

While there are some deviations, five of the seven indicators analyzed as part of this section are applicable to the State Highway System (SHS), *shown in dark red in the map below.*



Vehicle Miles Traveled

Daily; National & State Highway Systems, Strategic Intermodal System

Vehicle Miles Traveled measures the average total miles traveled daily on the National and State Highway System and the Strategic Intermodal System.³²

Vehicle Miles Traveled	2016	2017	2018	2019	2020
	Daily VMT	Daily VMT	Daily VMT	Daily VMT	Daily VMT
Brevard County	23,306,081	24,265,150	24,619,495	25,052,422	23,379,402
Flagler County*	4,436,123	4,371,214	4,667,825	5,054,422	5,153,828
Lake County	11,372,541	11,968,426	12,028,962	12,621,391	12,119,496
Marion County	14,441,171	14,695,673	15,156,092	16,500,543	15,438,596
Orange County	54,346,791	56,792,025	58,275,168	61,760,821	56,424,034
Osceola County	14,169,152	14,866,319	15,294,315	15,662,991	13,719,952
Polk County	27,633,131	28,136,840	29,019,214	29,228,668	27,052,315
Seminole County	13,647,022	14,125,332	14,258,743	14,115,033	13,255,578
Sumter County	7,595,335	8,017,999	8,429,795	8,878,830	7,973,667
Volusia County	22,177,130	21,942,573	22,639,148	24,049,165	23,813,719
CFMPOA Region	193,124,477	199,181,551	204,388,757	212,924,286	198,330,587

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

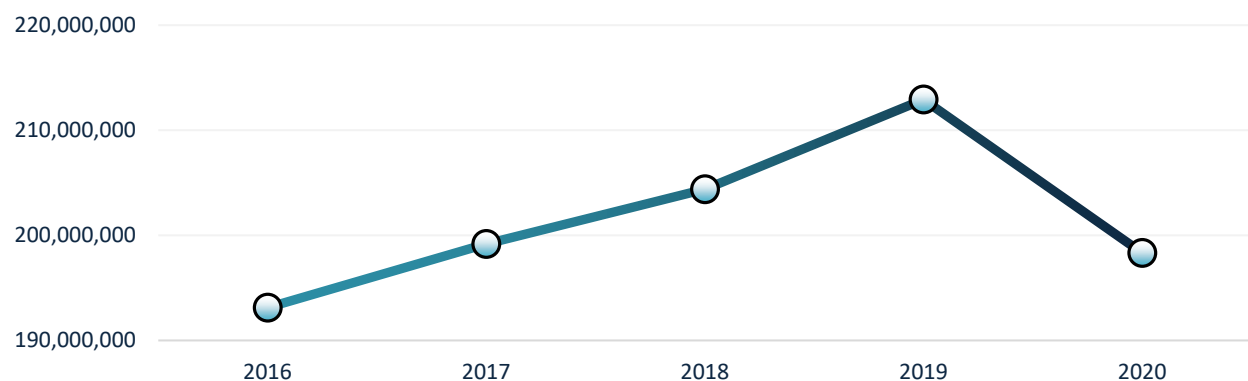
Source(s): Florida Dept. of Transportation (Latest Release)

Vehicle Miles Traveled	2016	2017	2018	2019	2020
	Daily VMT	Daily VMT	Daily VMT	Daily VMT	Daily VMT
Lake-Sumter MPO	18,967,876	19,986,425	20,458,757	21,500,221	20,093,163
MetroPlan Orlando	82,162,965	85,783,676	87,828,226	91,538,845	83,399,564
Ocala Marion TPO	14,441,171	14,695,673	15,156,092	16,500,543	15,438,596
Polk TPO	27,633,131	28,136,840	29,019,214	29,228,668	27,052,315
River to Sea TPO*	26,613,253	26,313,787	27,306,973	29,103,587	28,967,547
Space Coast TPO	23,306,081	24,265,150	24,619,495	25,052,422	23,379,402

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation (Latest Release)

Daily Vehicle Miles Traveled, Central Florida MPO Alliance Region, 2016-2020



Vehicle Hours of Delay

Peak Hour; National Highway System, State Highway System, and Strategic Intermodal System

Vehicle hours of delay measures the “additional travel time” experienced by motorists beyond normal travel conditions without congestion.³³

Vehicle Hours of Delay	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Brevard County	1,408	2,124	1,785	1,922	1,017	1,651
Flagler County*	64	64	62	79	78	69
Lake County	357	554	692	781	495	576
Marion County	648	1,116	1,083	1,192	773	962
Orange County	26,053	30,650	31,091	31,623	12,034	26,290
Osceola County	3,843	5,711	7,020	7,903	3,663	5,628
Polk County	1,907	2,423	2,609	2,937	1,904	2,356
Seminole County	4,943	6,336	5,979	5,851	2,513	5,124
Sumter County	140	348	311	246	160	241
Volusia County	1,729	2,464	2,239	2,301	1,537	2,054
CFMPOA Region	41,092	51,790	52,871	54,835	24,174	44,952

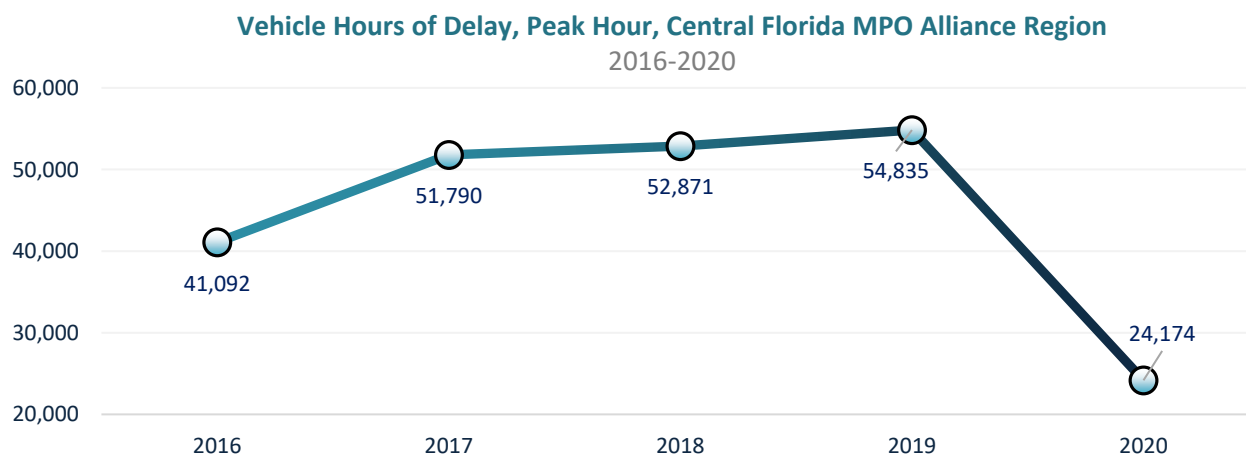
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies

Vehicle Hours of Delay	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Lake-Sumter MPO	497	902	1,003	1,027	655	817
MetroPlan Orlando	34,839	42,697	44,090	45,377	18,210	37,043
Ocala Marion TPO	648	1,116	1,083	1,192	773	962
Polk TPO	1,907	2,423	2,609	2,937	1,904	2,356
River to Sea TPO*	1,793	2,528	2,301	2,380	1,615	2,123
Space Coast TPO	1,408	2,124	1,785	1,922	1,017	1,651

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



Planning Time Index
Peak Hour, State Highway System

Planning Time Index measures the extent of a travel delay versus normal travel conditions, where a value of 1.00 equals normal travel time. Higher values represent greater delays.³⁴

Planning Time Index	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Brevard County	1.16	1.19	1.20	1.21	1.17	1.19
Flagler County*	1.11	1.11	1.12	1.15	1.13	1.12
Lake County	1.18	1.22	1.24	1.25	1.22	1.22
Marion County	1.17	1.28	1.28	1.32	1.21	1.25
Orange County	1.58	1.70	1.72	1.77	1.52	1.66
Osceola County	1.34	1.42	1.46	1.47	1.44	1.43
Polk County	1.22	1.27	1.29	1.32	1.27	1.27
Seminole County	1.62	1.81	1.80	1.86	1.55	1.73
Sumter County	1.09	1.12	1.15	1.12	1.10	1.12
Volusia County	1.18	1.20	1.21	1.20	1.18	1.19
CFMPOA Region	1.34	1.42	1.43	1.46	1.34	1.40

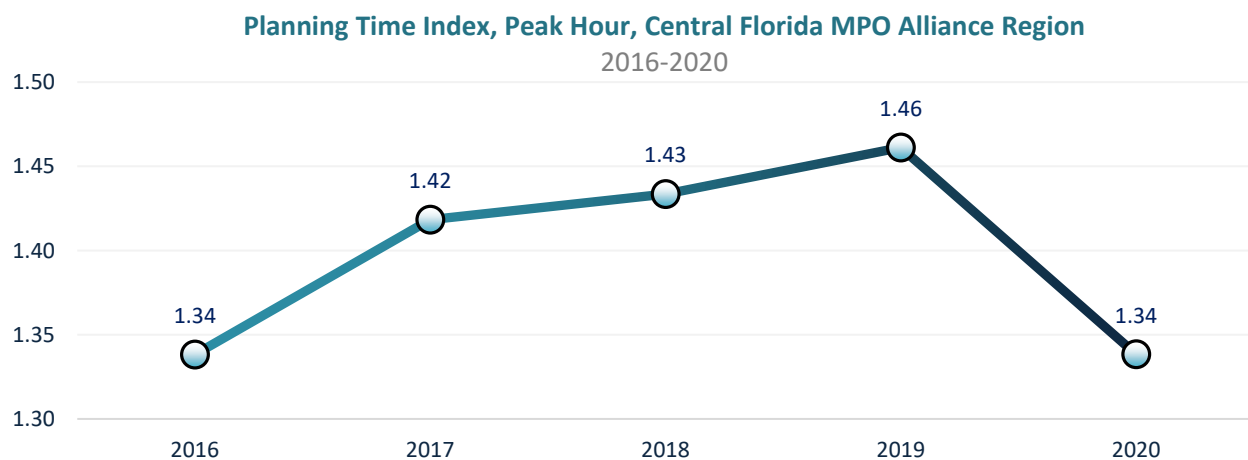
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies

Planning Time Index	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Lake-Sumter MPO	1.16	1.19	1.22	1.22	1.19	1.19
MetroPlan Orlando	1.55	1.67	1.69	1.74	1.51	1.63
Ocala Marion TPO	1.17	1.28	1.28	1.32	1.21	1.25
Polk TPO	1.22	1.27	1.29	1.32	1.27	1.27
River to Sea TPO*	1.17	1.18	1.19	1.19	1.17	1.18
Space Coast TPO	1.16	1.19	1.20	1.21	1.17	1.19

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



Percent of Travel that is Heavily Congested
Peak Hour, State Highway System

This metric uses vehicle miles traveled and average travel speeds to determine the percentage of travel time that qualifies under the FDOT definition of “heavily congested”.³⁵

% Travel Heavily Congested	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Brevard County	0.7%	1.2%	1.0%	1.4%	0.6%	1.0%
Flagler County*	0.4%	0.2%	0.3%	0.6%	0.5%	0.4%
Lake County	0.5%	1.0%	1.6%	1.3%	0.5%	1.0%
Marion County	1.2%	2.2%	2.1%	2.8%	1.2%	1.9%
Orange County	14.7%	17.7%	17.2%	17.5%	6.5%	14.7%
Osceola County	7.9%	11.1%	12.6%	13.7%	7.4%	10.5%
Polk County	1.3%	2.0%	2.1%	2.7%	1.6%	1.9%
Seminole County	9.2%	11.7%	11.3%	12.7%	4.8%	9.9%
Sumter County	0.9%	1.7%	1.7%	1.7%	0.6%	1.3%
Volusia County	1.0%	1.6%	1.4%	1.5%	1.0%	1.3%
CFMPOA Region	5.9%	7.6%	7.5%	8.0%	3.3%	6.5%

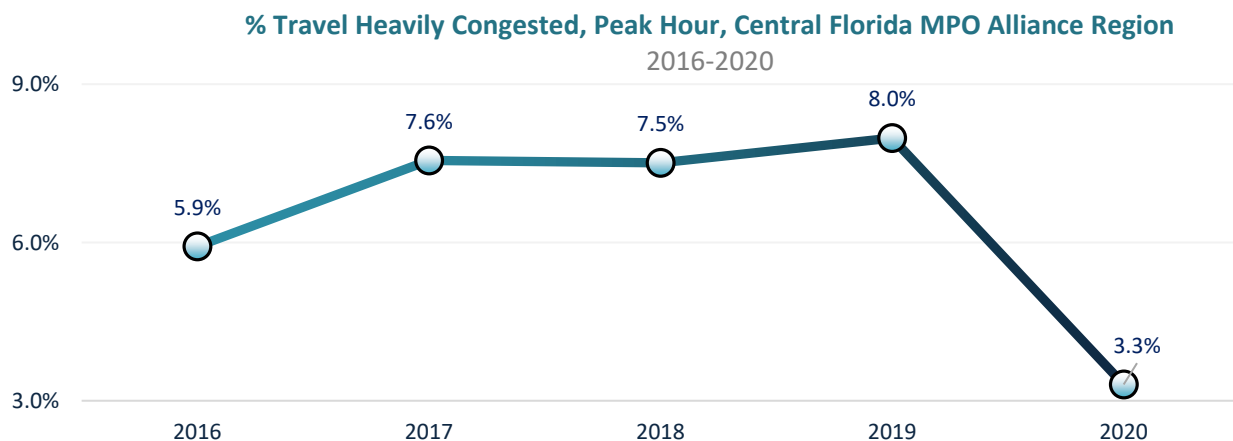
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies

% Travel Heavily Congested	2016	2017	2018	2019	2020	2016-20
Peak Hour						Average
Lake-Sumter MPO	0.6%	1.2%	1.6%	1.4%	0.5%	1.1%
MetroPlan Orlando	12.4%	15.3%	15.2%	15.8%	6.3%	13.0%
Ocala Marion TPO	1.2%	2.2%	2.1%	2.8%	1.2%	1.9%
Polk TPO	1.3%	2.0%	2.1%	2.7%	1.6%	1.9%
River to Sea TPO*	0.9%	1.4%	1.2%	1.3%	0.9%	1.1%
Space Coast TPO	0.7%	1.2%	1.0%	1.4%	0.6%	1.0%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



*Percent of Roadway Miles Heavily Congested
Peak Hour, State Highway System*

This metric quantifies the percent of roadway miles on the State Highway System that qualify under the FDOT definition of “heavily congested”.³⁶

% Miles Heavily Congested	2016	2017	2018	2019	2020	2016-20
Peak Hour	Average					
Brevard County	0.5%	1.0%	0.9%	1.1%	0.6%	0.8%
Flagler County*	0.2%	0.2%	0.2%	0.3%	0.3%	0.2%
Lake County	0.5%	0.8%	1.4%	1.2%	0.6%	0.9%
Marion County	0.5%	1.0%	1.0%	1.2%	0.5%	0.8%
Orange County	9.7%	12.3%	11.7%	12.2%	4.8%	10.1%
Osceola County	2.7%	4.3%	4.9%	5.5%	2.7%	4.0%
Polk County	0.9%	1.4%	1.4%	1.7%	1.2%	1.3%
Seminole County	5.1%	7.1%	7.1%	8.1%	3.4%	6.2%
Sumter County	0.5%	0.8%	0.8%	0.8%	0.3%	0.6%
Volusia County	0.7%	1.3%	1.3%	1.4%	0.9%	1.1%
CFMPOA Region	3.6%	4.9%	4.8%	5.2%	2.2%	4.2%

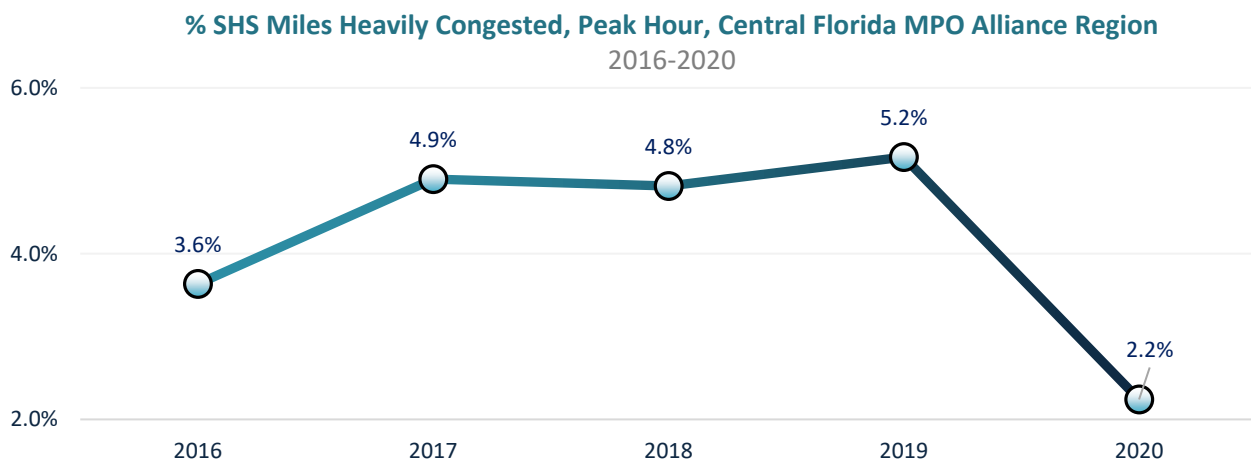
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies

% Miles Heavily Congested	2016	2017	2018	2019	2020	2016-20
Peak Hour	Average					
Lake-Sumter MPO	0.5%	0.8%	1.2%	1.1%	0.5%	0.8%
MetroPlan Orlando	7.5%	9.8%	9.6%	10.2%	4.1%	8.3%
Ocala Marion TPO	0.5%	1.0%	1.0%	1.2%	0.5%	0.8%
Polk TPO	0.9%	1.4%	1.4%	1.7%	1.2%	1.3%
River to Sea TPO*	0.6%	1.1%	1.1%	1.2%	0.8%	1.0%
Space Coast TPO	0.5%	1.0%	0.9%	1.1%	0.6%	0.8%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



*Percent of the Time Roadways are Heavily Congested
Daily, State Highway System*

This metric quantifies the percent of the time that roadways on the State Highway System qualify under the FDOT definition of “heavily congested”.³⁷

% Time Heavily Congested	2016	2017	2018	2019	2020	2016-20
Daily						Average
Brevard County	0.2%	0.4%	0.4%	0.5%	0.2%	0.3%
Flagler County*	0.1%	0.2%	0.1%	0.5%	0.4%	0.3%
Lake County	0.2%	0.3%	0.8%	0.6%	0.5%	0.5%
Marion County	0.2%	0.4%	0.3%	0.4%	0.2%	0.3%
Orange County	2.3%	3.0%	3.0%	3.2%	1.6%	2.6%
Osceola County	0.8%	1.3%	1.6%	1.6%	0.8%	1.2%
Polk County	0.4%	0.7%	0.7%	0.8%	0.6%	0.6%
Seminole County	1.0%	1.5%	1.4%	1.8%	1.1%	1.4%
Sumter County	0.5%	0.5%	0.5%	0.6%	0.2%	0.5%
Volusia County	0.4%	0.6%	0.6%	0.8%	0.6%	0.6%
CFMPOA Region	0.9%	1.3%	1.4%	1.5%	0.8%	1.2%

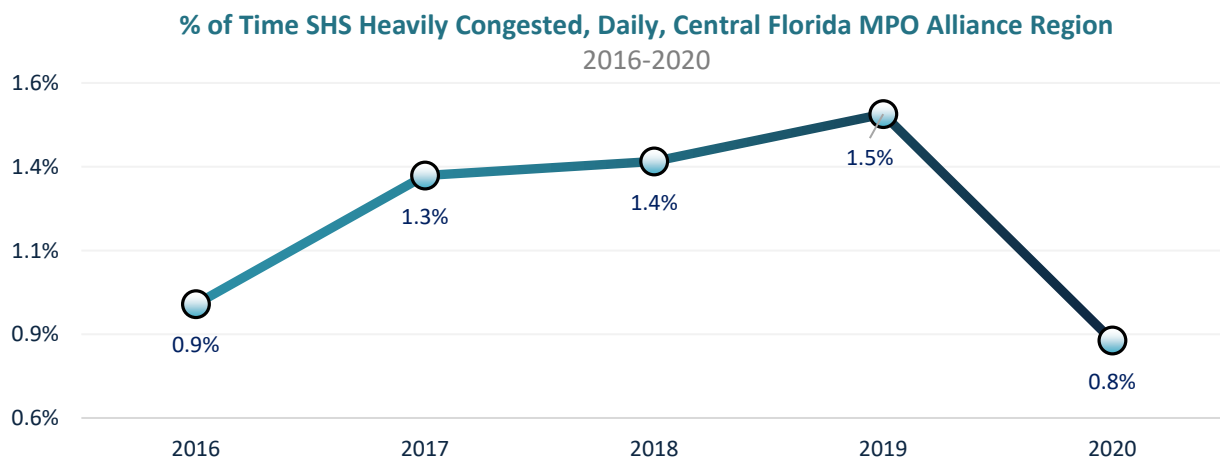
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies

% Time Heavily Congested	2016	2017	2018	2019	2020	2016-20
Daily						Average
Lake-Sumter MPO	0.3%	0.4%	0.7%	0.6%	0.4%	0.5%
MetroPlan Orlando	1.8%	2.4%	2.4%	2.6%	1.4%	2.1%
Ocala Marion TPO	0.2%	0.4%	0.3%	0.4%	0.2%	0.3%
Polk TPO	0.4%	0.7%	0.7%	0.8%	0.6%	0.6%
River to Sea TPO*	0.3%	0.5%	0.5%	0.7%	0.6%	0.5%
Space Coast TPO	0.2%	0.4%	0.4%	0.5%	0.2%	0.3%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



Duration of Congestion in Minutes
Daily, State Highway System

This metric quantifies the average duration of time, in minutes, that roadways with 15 minutes or more per hour of congestion on the State Highway System are heavily congested.³⁸

Duration of Congestion	2016	2017	2018	2019	2020	2016-20
Daily, in Minutes						Average
Brevard County	2.03	4.95	4.61	7.48	2.26	4.27
Flagler County*	1.88	1.21	0.36	14.12	9.75	5.46
Lake County	2.23	3.96	22.31	9.48	6.54	8.90
Marion County	4.10	8.12	6.51	9.49	2.70	6.18
Orange County	49.99	62.00	59.96	68.21	32.17	54.47
Osceola County	19.58	31.60	40.16	46.40	23.09	32.17
Polk County	8.06	13.82	15.39	20.65	12.15	14.01
Seminole County	29.61	39.95	34.33	39.82	17.14	32.17
Sumter County	10.36	12.25	10.22	16.09	3.25	10.43
Volusia County	5.66	9.39	8.57	11.86	8.82	8.86
CFMPOA Region	20.41	27.52	28.41	32.77	15.93	25.01

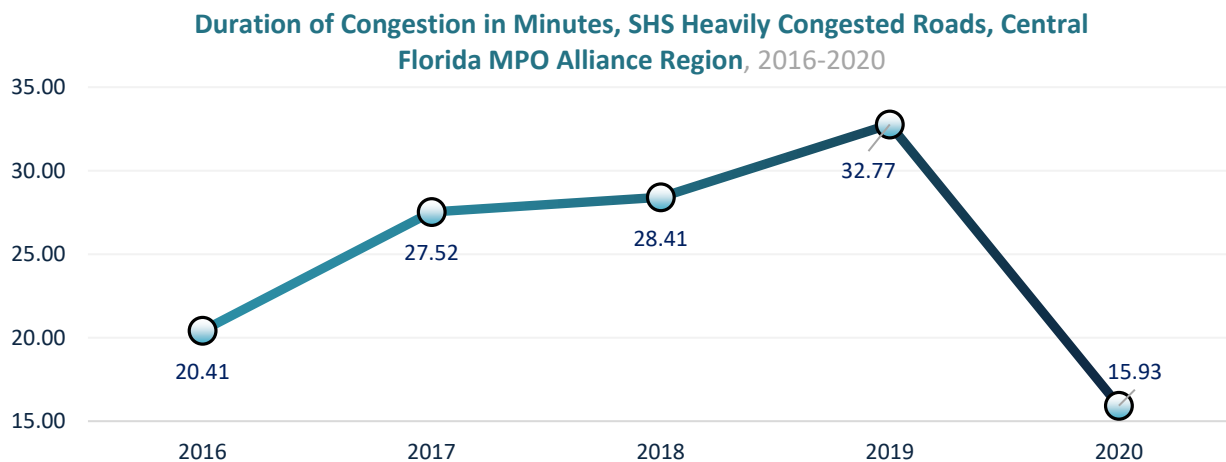
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Source(s): Florida Dept. of Transportation, HERE Technologies

Duration of Congestion	2016	2017	2018	2019	2020	2016-20
Daily, in Minutes						Average
Lake-Sumter MPO	4.30	6.08	19.22	11.17	5.70	9.29
MetroPlan Orlando	40.48	52.15	51.24	58.57	27.50	45.98
Ocala Marion TPO	4.10	8.12	6.51	9.49	2.70	6.18
Polk TPO	8.06	13.82	15.39	20.65	12.15	14.01
River to Sea TPO*	4.99	7.95	7.12	12.26	8.98	8.26
Space Coast TPO	2.03	4.95	4.61	7.48	2.26	4.27

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies



*Freight – Average Truck Speed
Peak Hour; State Highway System*

Avg. Truck Speed	2016	2017	2018	2019	2020	2016-20
Miles Per Hour						Average
Brevard County	60.9	61.0	61.0	61.1	61.5	61.1
Flagler County*	63.0	62.3	63.1	61.6	59.7	61.9
Lake County	50.7	49.5	51.0	50.9	50.8	50.6
Marion County	60.7	59.8	60.9	61.6	62.4	61.1
Orange County	50.0	49.0	48.9	49.3	54.6	50.4
Osceola County	56.8	55.9	56.6	56.7	57.7	56.7
Polk County	54.5	54.6	55.0	53.8	54.6	54.5
Seminole County	47.4	47.1	47.2	47.2	49.8	47.7
Sumter County	62.1	62.2	62.5	63.4	65.1	63.1
Volusia County	57.7	58.3	58.9	59.1	60.0	58.8
CFMPOA Region	54.5	54.0	54.4	54.4	56.5	54.8

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

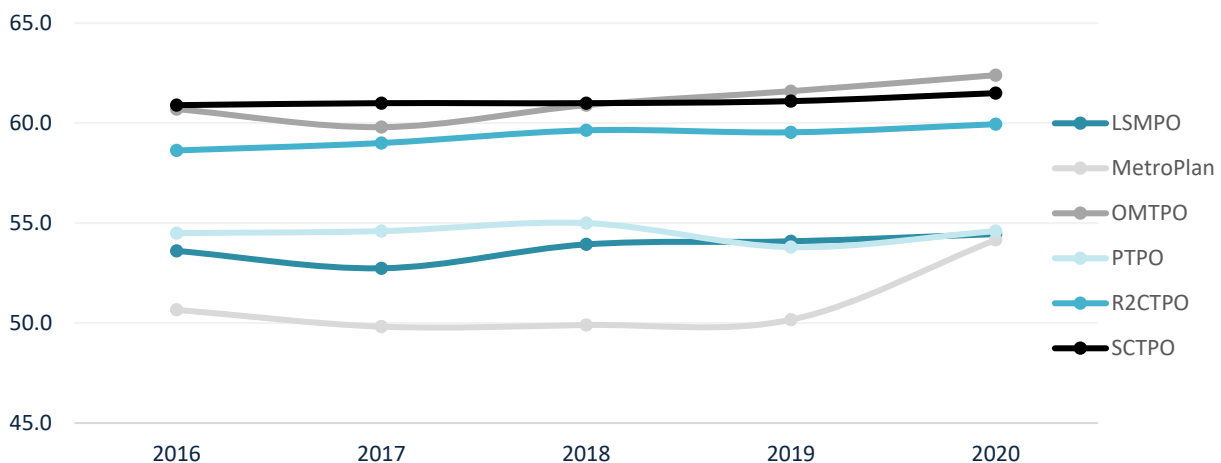
Source(s): Florida Dept. of Transportation, HERE Technologies³⁹

Avg. Truck Speed	2016	2017	2018	2019	2020	2016-20
Miles Per Hour						Average
Lake-Sumter MPO	53.6	52.7	53.9	54.1	54.4	53.8
MetroPlan Orlando	50.7	49.8	49.9	50.2	54.2	50.9
Ocala Marion TPO	60.7	59.8	60.9	61.6	62.4	61.1
Polk TPO	54.5	54.6	55.0	53.8	54.6	54.5
River to Sea TPO*	58.6	59.0	59.6	59.5	59.9	59.4
Space Coast TPO	60.9	61.0	61.0	61.1	61.5	61.1

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies³⁹

Average Truck Speed (MPH), Peak Hour, Nat'l Highway System (by TPO)
2016-2020



Freight – Truck Hours of Delay

Daily; National Highway System, State Highway System, and Strategic Intermodal System

Truck Hours of Delay	2016	2017	2018	2019	2020	2016-20
Daily, in Minutes						Average
Brevard County	314	418	440	570	339	416
Flagler County*	25	29	40	73	36	41
Lake County	139	191	286	322	235	235
Marion County	387	598	671	858	459	595
Orange County	2,950	3,203	3,610	3,687	1,634	3,017
Osceola County	691	1,357	1,831	1,836	884	1,320
Polk County	623	870	1,197	1,334	689	943
Seminole County	493	617	684	606	299	540
Sumter County	273	485	435	516	222	386
Volusia County	407	495	525	533	391	470
CFMPOA Region	6,302	8,263	9,719	10,335	5,188	--

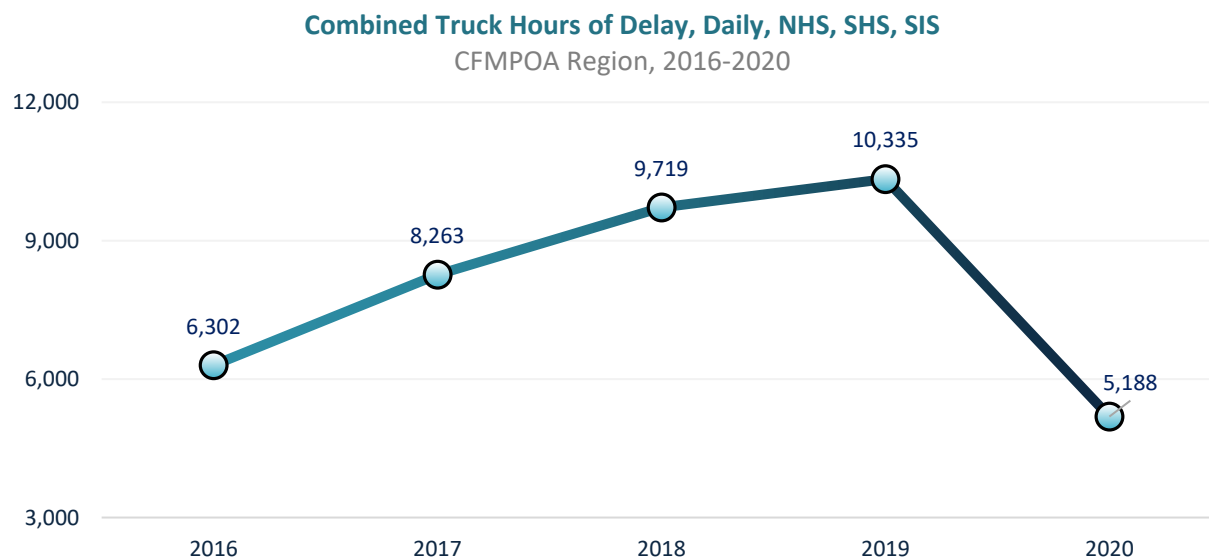
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies40

Truck Hours of Delay	2016	2017	2018	2019	2020	2016-20
Daily, in Minutes						Average
Lake-Sumter MPO	412	676	721	838	457	621
MetroPlan Orlando	4,134	5,177	6,125	6,129	2,817	4,876
Ocala Marion TPO	387	598	671	858	459	595
Polk TPO	623	870	1,197	1,334	689	943
River to Sea TPO*	432	524	565	606	427	511
Space Coast TPO	314	418	440	570	339	416

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, HERE Technologies40



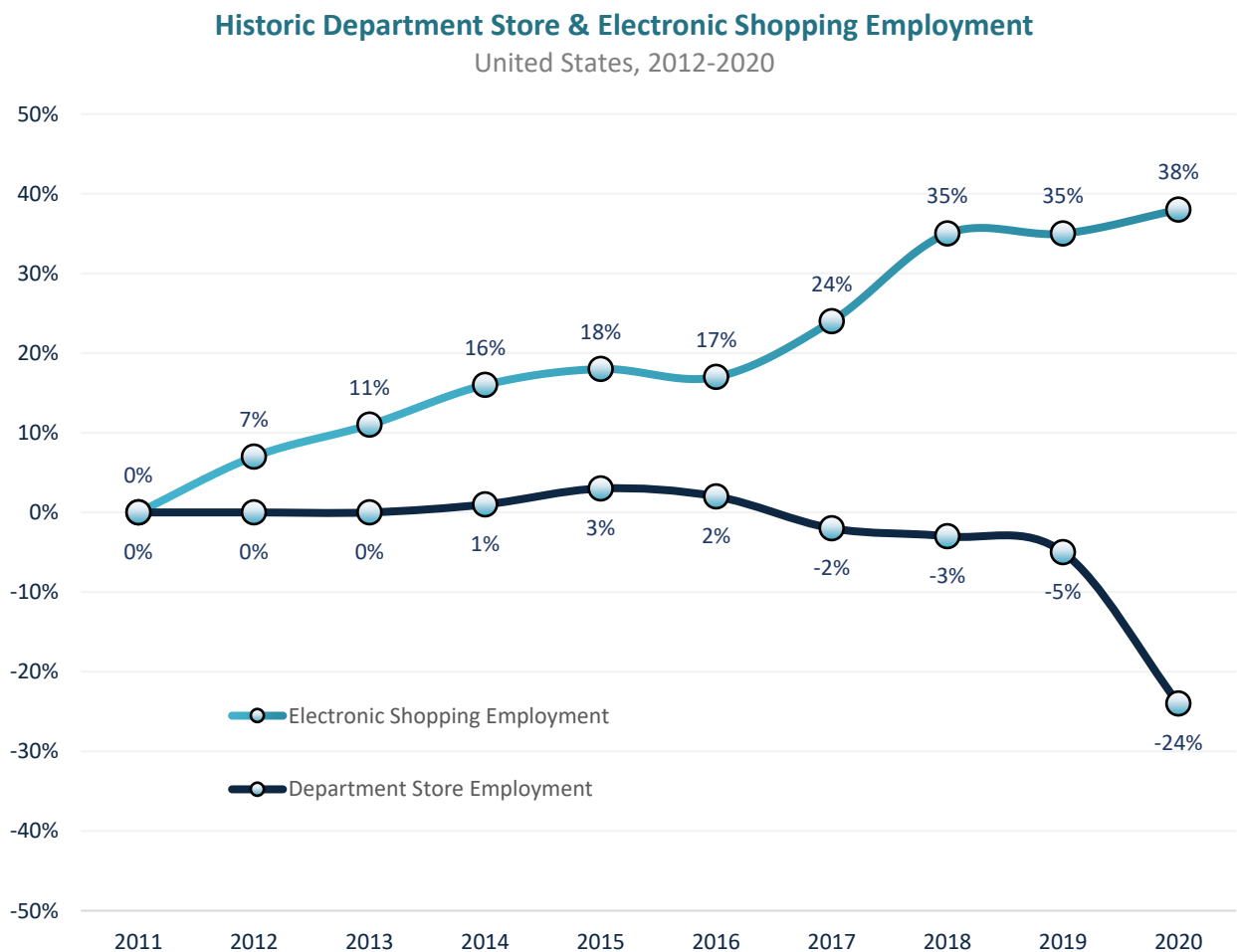
4.4 | E-Commerce & Remote Work

E-Commerce and remote work will have future implications on travel trends as more purchases are made online, more people are working from home, and less people are using the state transportation system to get to work or to make purchases. This section of the report identifies critical trends that are occurring across the following indicators:

- Historic Department Store & Electronic Shopping Employment
- Percent of Florida Residents Working from Home
- Percent of Retail Purchases Made Online

Historic Department Store & Electronic Shopping Employment

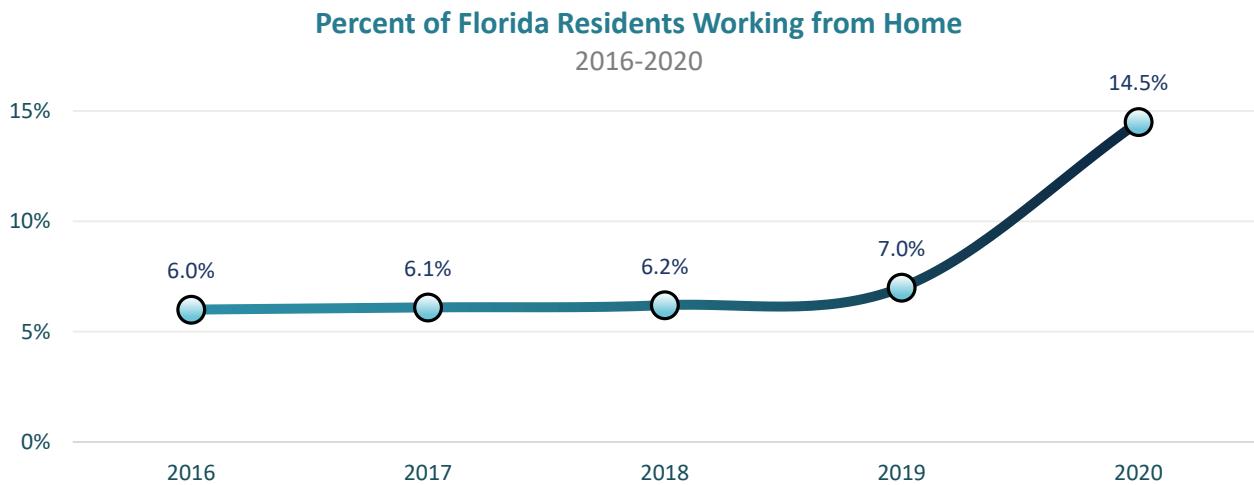
A clear trend has formed in retail employment, with a consistent increase in electronic shopping employment and accelerating decrease in department store employment.⁴¹ Most notably, department store employment saw a large decrease in 2020 as the COVID-19 pandemic closed many brick-and-mortar businesses.



Source: U.S. Bureau of Labor Statistics, Hours and Earnings Survey

Percent of Florida Residents Working from Home

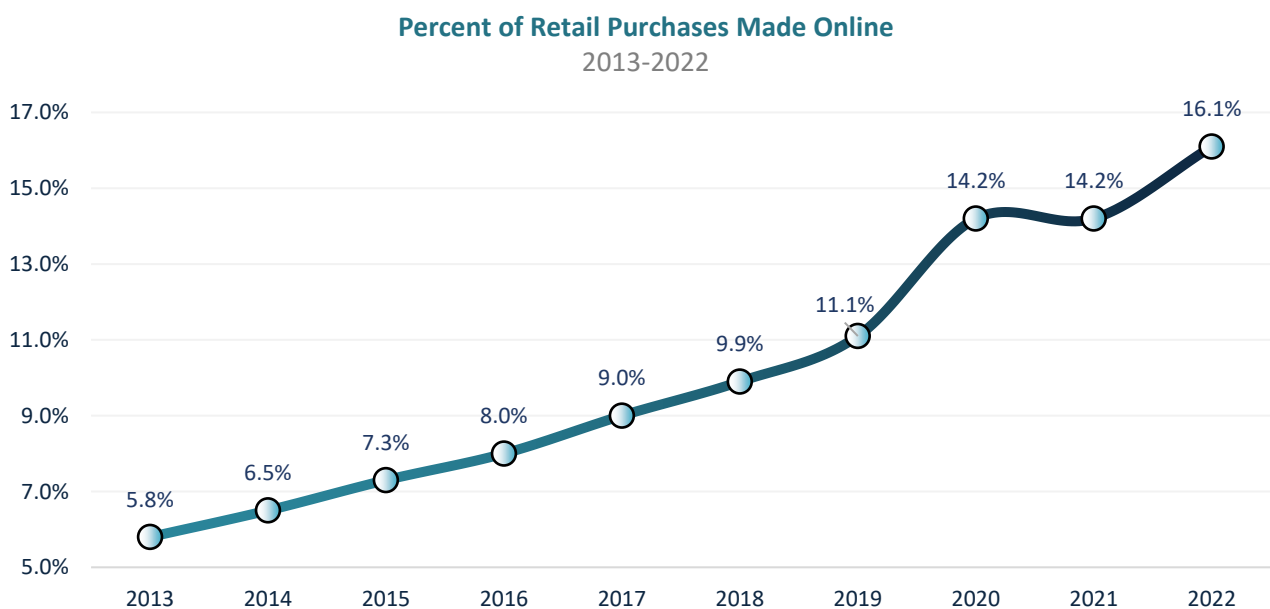
Following consistent rates of employees working from home from 2016 to 2019, a substantial jump in work from home rates occurred in 2020 with the onset of the COVID-19 pandemic.⁴² While numerous employers are beginning to open offices, it remains to be seen if this trend will reverse, and if there is a reverse, if it will fall back to pre-COVID-19 levels. Following this metric closely as new data is released is a high priority for the Central Florida MPO Alliance.



Source: U.S Census Bureau, FDOT 2021 Resident Satisfaction Survey

Percent of Retail Purchases Made Online

The trend in purchasing continues to move to the digital world as e-commerce accrues a larger percentage of the retail market. The chart below shows an accelerating share of retail purchases being completed online from 2013 to 2021.⁴³



Source: Statista

4.5 | Electric Vehicles & Fuel Consumption

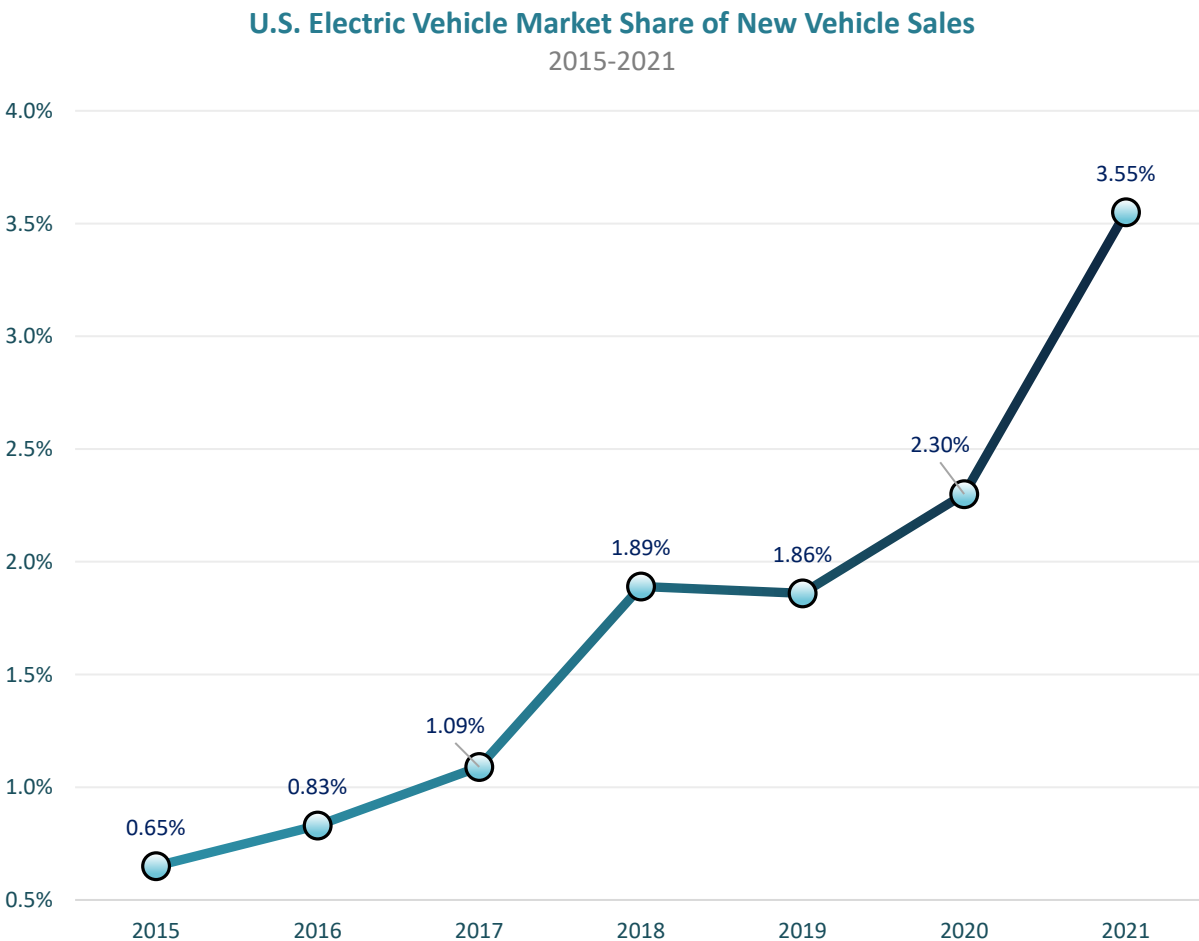
This section of the report provides information on the rapidly-changing landscape marked by the rapid, nationwide adoption of electric vehicles, and summarizes regional trends relating to gasoline and diesel fuel consumption.

Funding Implications of Electric Vehicle Market Share & Increasing Vehicle Miles Traveled

Funding for roadway projects in the state of Florida is reliant on gas tax revenues, and it is unclear whether gasoline and diesel fuel demand will continue to increase into the future given the growing market share of electric vehicles. This factor, alongside the continuing trend of increased vehicle miles traveled (VMT) over time, means that fewer dollars will be available to fund roadways that are being used more heavily over time. This challenge will require more engagement between the Central Florida MPO Alliance and policymakers and stakeholders at the federal and state levels.

Electric Vehicle Adoption Rate

The chart below depicts the electric vehicle adoption rate in the United States from 2015 to 2021. During this time period, the market share of electric vehicles increased by five times, signaling the potential beginning of an exponential growth curve.⁴⁴

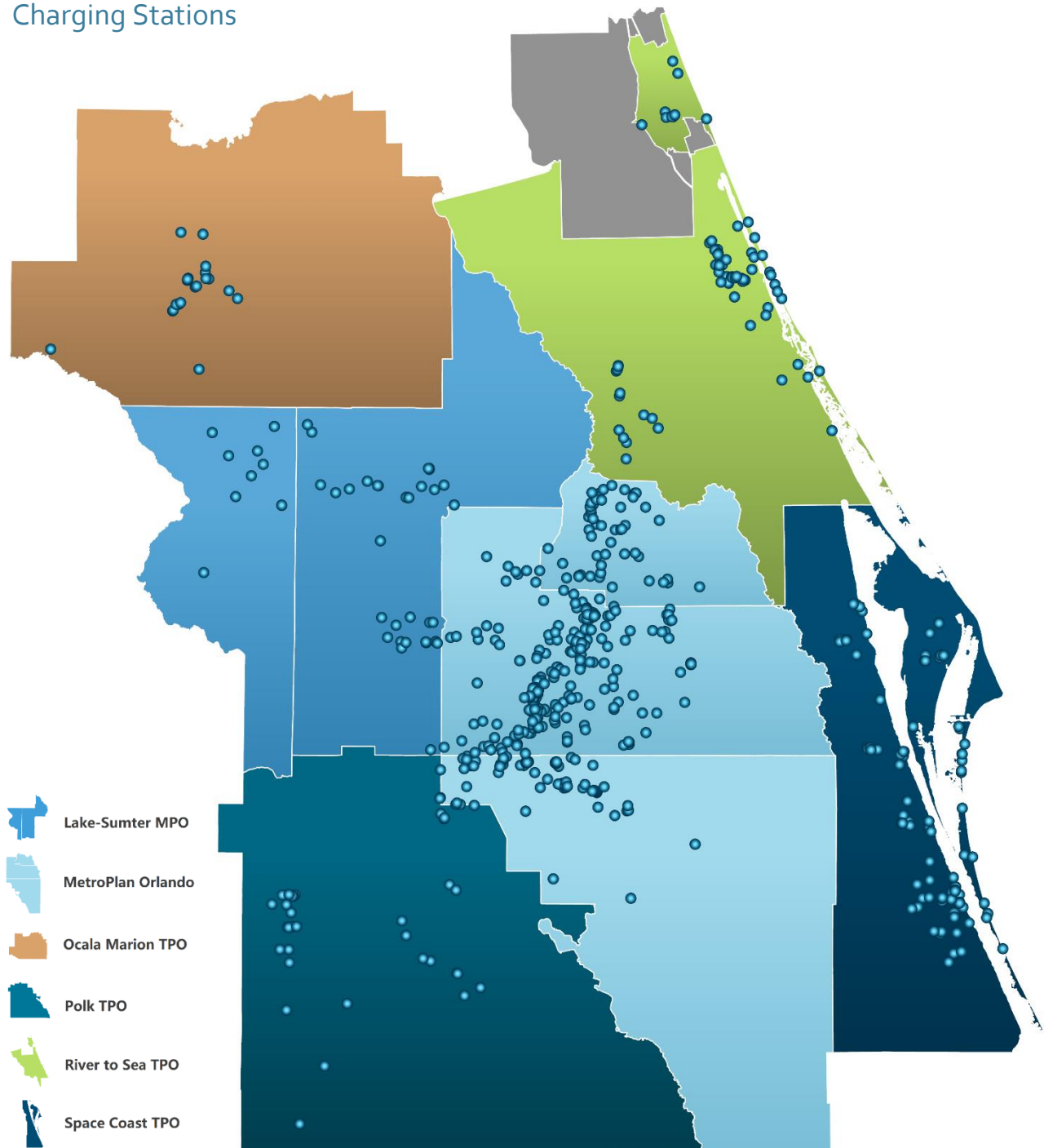


Source(s): Auto Manufacturers Alliance, Automotive News, InsideEVs.com

Electric Vehicle Charging Stations

As electric vehicle adoption accelerates, the need for infrastructure to support their usage is an important factor in overall scalability. The map below shows electric vehicle stations in the Central Florida MPO Alliance region as of December 4, 2022 as compiled by the U.S. Department of Transportation. There are currently 847 stations in the region.⁴⁵

Electric Vehicle Charging Stations



Gasoline Consumption

The tables and chart below depict the trend in gasoline consumption in the Alliance region.⁴⁶

Gasoline Consumption	2016-17	2017-18	2018-19	2019-20	2020-21
	Gallons	Gallons	Gallons	Gallons	Gallons
Brevard County	259,014,856	263,674,585	269,240,362	250,055,588	247,284,877
Flagler County*	41,718,997	43,958,293	44,550,218	42,021,226	44,626,840
Lake County	143,875,036	147,079,506	149,293,977	143,409,141	144,969,098
Marion County	173,252,447	175,540,794	181,722,854	178,531,967	181,332,876
Orange County	675,785,007	687,389,037	709,390,547	644,126,888	602,771,769
Osceola County	179,475,330	185,681,440	186,939,048	172,932,022	172,998,637
Polk County	262,550,929	273,727,763	288,045,950	280,565,399	292,039,759
Seminole County	206,503,106	208,464,340	210,061,056	191,903,490	179,891,244
Sumter County	60,267,062	64,493,984	69,284,692	64,540,749	64,994,246
Volusia County	232,104,685	238,844,285	242,658,779	229,864,485	233,913,819
CFMPOA Region	2,234,547,455	2,288,854,027	2,351,187,483	2,197,950,955	2,164,823,165

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

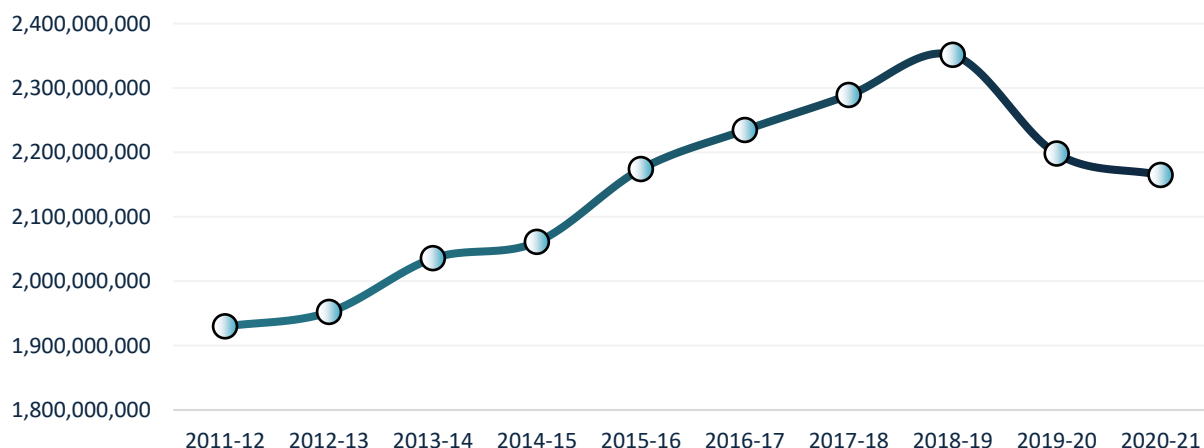
Source(s): Florida Department of Revenue

Gasoline Consumption	2016-17	2017-18	2018-19	2019-20	2020-21
	Gallons	Gallons	Gallons	Gallons	Gallons
Lake-Sumter MPO	204,142,098	211,573,490	218,578,669	207,949,890	209,963,344
MetroPlan Orlando	1,061,763,443	1,081,534,817	1,106,390,651	1,008,962,400	955,661,650
Ocala Marion TPO	173,252,447	175,540,794	181,722,854	178,531,967	181,332,876
Polk TPO	262,550,929	273,727,763	288,045,950	280,565,399	292,039,759
River to Sea TPO*	273,823,682	282,802,578	287,208,997	271,885,711	278,540,659
Space Coast TPO	259,014,856	263,674,585	269,240,362	250,055,588	247,284,877

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Department of Revenue

Gasoline Consumption in Gallons, Central Florida MPO Alliance Region
2011/12 - 2020/21



Diesel Fuel Consumption

The tables and chart below depict the trend in diesel fuel consumption in the Alliance region.⁴⁶

Diesel Consumption	2016-17	2017-18	2018-19	2019-20	2020-21
	Gallons	Gallons	Gallons	Gallons	Gallons
Brevard County	137,871,185	136,285,659	179,364,275	194,640,059	187,607,808
Flagler County*	5,315,176	5,383,944	5,408,199	5,608,554	5,373,593
Lake County	18,457,909	18,971,612	18,682,221	19,319,359	18,947,992
Marion County	48,381,187	51,135,315	51,069,048	53,691,953	52,920,882
Orange County	121,846,733	127,681,128	125,483,597	130,502,713	126,006,096
Osceola County	16,947,563	18,043,011	18,471,332	19,765,655	19,444,527
Polk County	86,266,326	90,556,683	89,852,011	93,650,908	90,536,434
Seminole County	21,504,735	22,146,478	21,892,897	19,279,029	18,440,013
Sumter County	33,432,524	35,962,275	35,625,782	36,440,550	35,777,077
Volusia County	29,592,017	31,448,444	31,653,540	33,048,196	32,103,868
CFMPOA Region	519,615,355	537,614,549	577,502,902	605,946,976	587,158,290

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

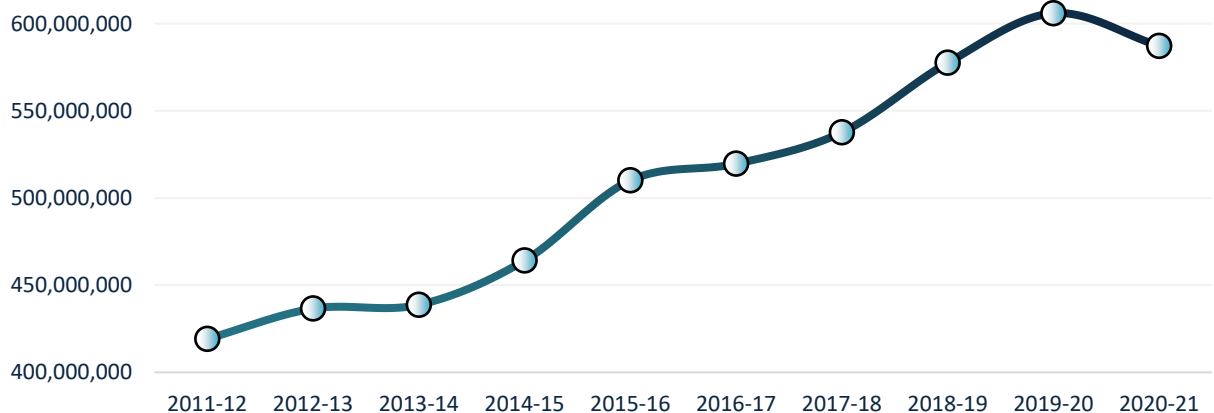
Source(s): Florida Department of Revenue

Diesel Consumption	2016-17	2017-18	2018-19	2019-20	2020-21
	Gallons	Gallons	Gallons	Gallons	Gallons
Lake-Sumter MPO	51,890,433	54,933,887	54,308,003	55,759,909	54,725,069
MetroPlan Orlando	160,299,031	167,870,617	165,847,826	169,547,397	163,890,636
Ocala Marion TPO	48,381,187	51,135,315	51,069,048	53,691,953	52,920,882
Polk TPO	86,266,326	90,556,683	89,852,011	93,650,908	90,536,434
River to Sea TPO*	34,907,193	36,832,388	37,061,739	38,656,750	37,477,461
Space Coast TPO	137,871,185	136,285,659	179,364,275	194,640,059	187,607,808

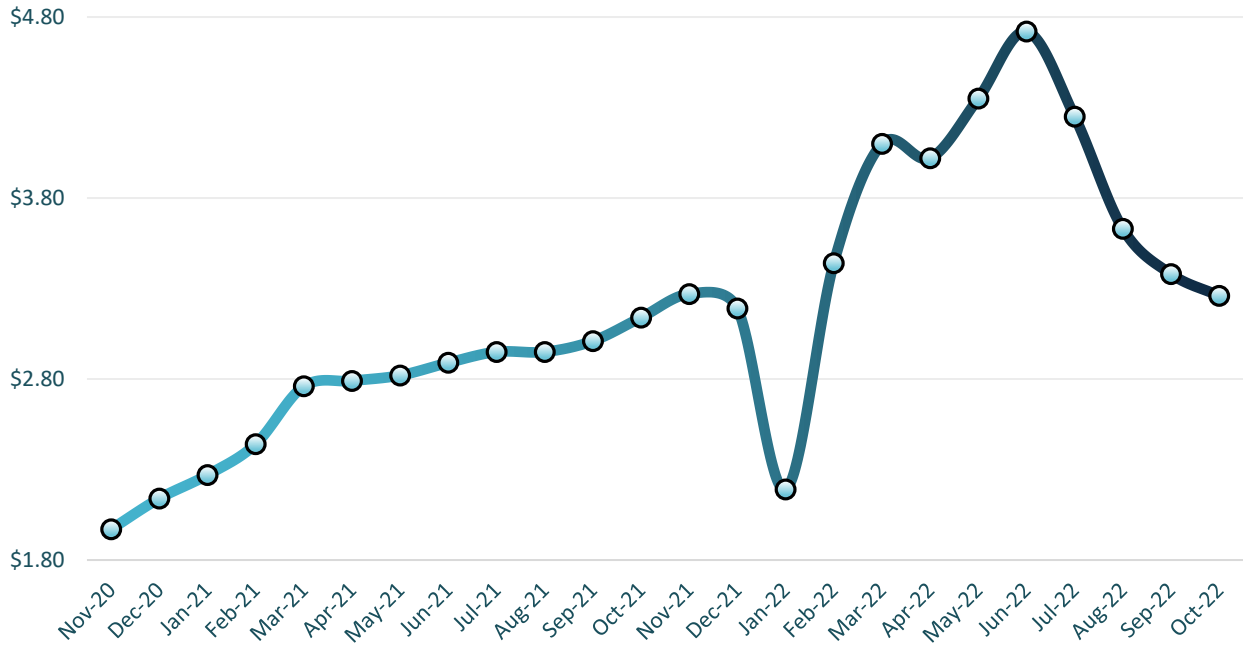
* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Department of Revenue

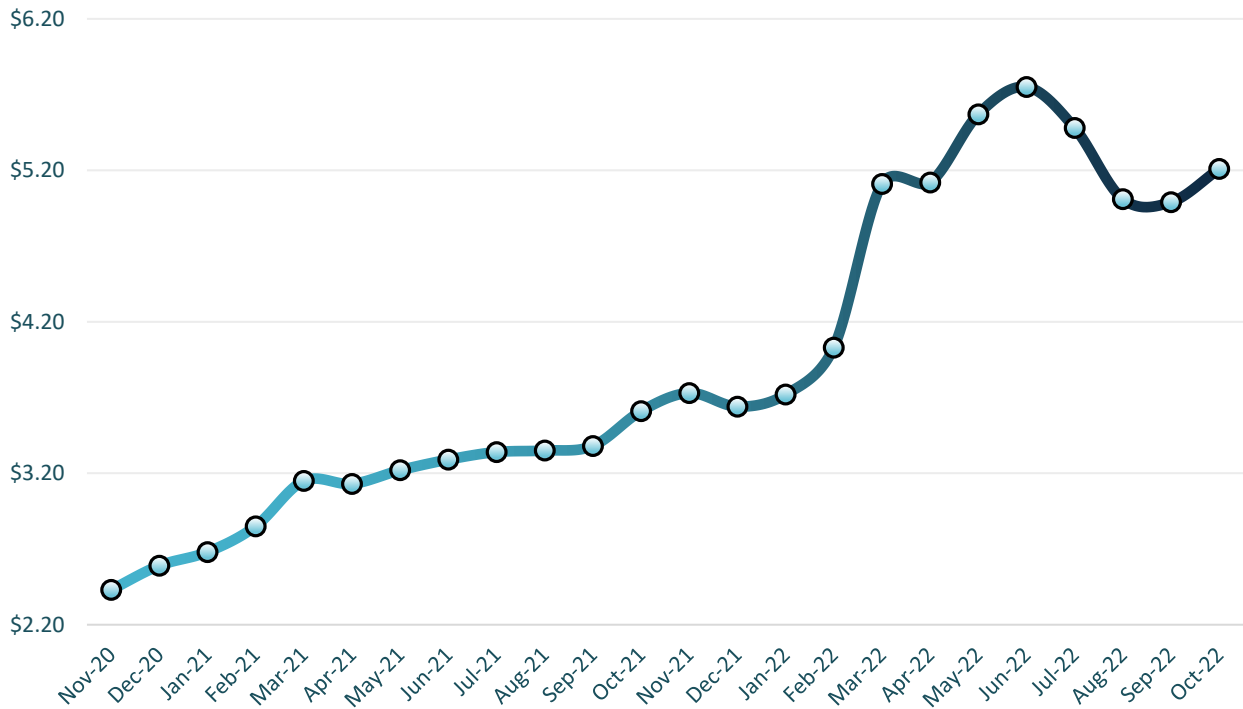
Diesel Fuel Consumption in Gallons, Central Florida MPO Alliance Region
2011/12 - 2020/21



Average Florida Gasoline Price Per Gallon, November 2020 - October 2022



Average Florida Diesel Price Per Gallon, November 2020 - October 2022



Source: U.S. Energy Information Administration (2022)⁴⁷

4.6 | Autonomous Vehicles

This section of the report outlines some potential trends that will need to be monitored if autonomous vehicles begin to be adopted in the Central Florida MPO Alliance region.

VMT Implications

As autonomous vehicles are adopted, vehicle miles traveled (VMT) may increase as a result of additional trips on roadways consisting of automobiles without human drivers operating them. This could result from numerous step-changes in logistics technology, including autonomous vehicles being used for personal deliveries.

Surface Parking Demand Implications

Autonomous vehicles, without a driver, could potentially be used for more hours per day as a result of autonomous vehicle owners renting out their vehicles while they are at work or otherwise occupied. As a result, there could be a reduced number of stationary (parked) vehicles at any given point in time as those vehicles are being utilized by individuals who do not own a vehicle themselves.

Transportation Cost Implications

If autonomous vehicle adoption is scaled, cost savings for end users could be realized when compared to the current pricing of taxi services and phone applications such as Uber and Lyft. Potential reasons behind this cost saving could include 1) removing the requirement of a human driver to transport a person from point A to point B, and 2) costs savings on fuel consumption if the autonomous vehicles are simultaneously electric battery-powered.

Vision Zero (Safety) Implications

Depending on the accuracy, scalability and latency of artificial intelligence programs that make autonomous vehicles possible, autonomous vehicles could potentially operate more safely than human drivers who are prone to error, however this has not yet been definitively demonstrated. If such a feat in technological innovation is achieved, then motorist, motor vehicle occupant, bicyclist and pedestrian injuries and fatalities could be reduced.

Transportation Sector Employment Implications

As described in 'Transportation Cost Implications', removing the need for a driver could potentially reduce the workforce in the transportation and logistics sector. While the Federal Highway Administration and other agencies have not approved driverless trucks as of 2022, a pivot in this direction could greatly reduce the workforce in the aforementioned sectors.

Next Steps & Funding Opportunities

Members of the Central Florida MPO Alliance are busy at work identifying opportunities to improve the region's multifaceted transportation network.

As such, numerous opportunities for funding from state and federal sources are available to MPO's, counties and municipalities to improve their transportation systems. The Infrastructure Investment and Jobs Act that passed the U.S. Congress in 2022 will be a primary driver of funding for many years to come for the MPO Alliance. A key component of the Infrastructure Investment and Jobs Act is the *Safe Streets and Roads for All* program.

As part of this program, the Federal Government has released funding for MPO's and municipalities to develop action plans to improve roadway safety for all users in their communities. During the 2023 grant period, the following Central Florida MPO's and municipalities received funding for action plan development and implementation:

- City of Mount Dora – SS4A Action Plan
- Lake County – SS4A Action Plan
- MetroPlan Orlando – SS4A Action Plan
- Polk County – Safer Roads FL Action Plan
- River To Sea TPO – Comprehensive Safety Action Plan

Conclusion

The Central Florida MPO Alliance will continue to convene and collaborate to address shared issues that impact residents and visitors of the Central Florida region.

In addition to completing this report, the Central Florida MPO Alliance has compiled a Story Map outlining the goals and outlining the planning efforts of MPO Alliance members. The Story Map can be viewed by clicking the link [here](#).

Appendices

Section Outline

Appendix 1: Road User Statistics

Appendix 2: Highway Statistics

Appendix 3: Source Documentation

Appendix 1 | Road User Statistics

Registered Vehicles

Registered Vehicles	2016-17	2017-18	2018-19	2019-20	2020-21
Brevard County	497,697	492,458	488,833	495,448	513,785
Flagler County*	98,437	99,784	100,896	102,017	109,926
Lake County	293,756	283,869	282,151	284,200	321,284
Marion County	295,311	297,382	296,192	301,643	322,047
Orange County	1,025,137	1,067,843	1,181,536	1,187,890	1,336,004
Osceola County	226,036	229,919	236,945	232,727	236,762
Polk County	545,033	535,991	546,989	538,555	563,224
Seminole County	449,045	441,412	436,431	418,692	411,628
Sumter County	85,246	86,383	91,600	89,108	90,923
Volusia County	470,148	473,473	484,914	472,744	459,818
CFMPOA Region	3,985,846	4,008,514	4,146,487	4,123,024	4,365,401

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

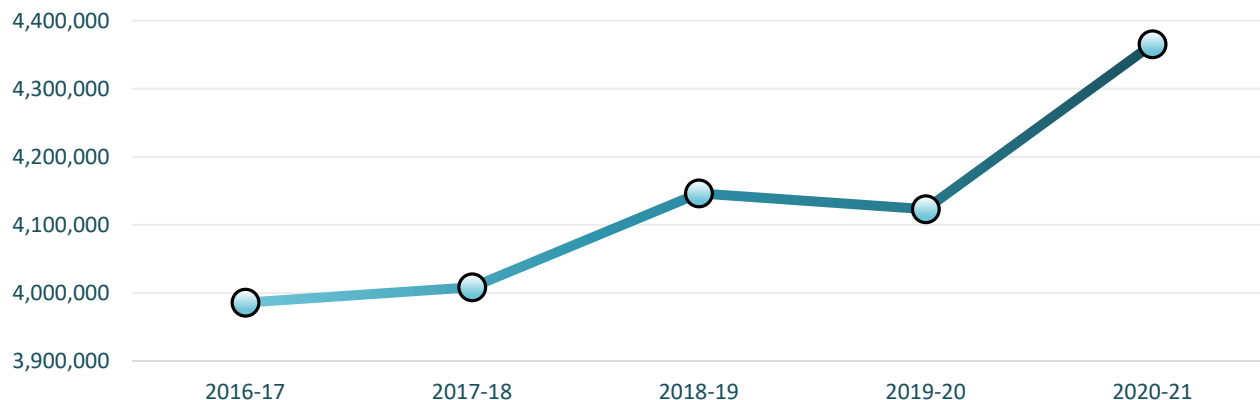
Source(s): Florida Dept. of Highway Safety and Motor Vehicles⁴⁸

Registered Vehicles	2016-17	2017-18	2018-19	2019-20	2020-21
Lake-Sumter MPO	379,002	370,252	373,751	373,308	412,207
MetroPlan Orlando	1,700,218	1,739,174	1,854,912	1,839,309	1,984,394
Ocala Marion TPO	295,311	297,382	296,192	301,643	322,047
Polk TPO	545,033	535,991	546,989	538,555	563,224
River to Sea TPO*	568,585	573,257	585,810	574,761	569,744
Space Coast TPO	497,697	492,458	488,833	495,448	513,785

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Highway Safety and Motor Vehicles⁴⁸

Registered Vehicles in the Central Florida MPO Alliance Region
2017-2021



Licensed Drivers

Licensed Drivers	2017	2018	2019	2020	2021
Brevard County	482,146	493,217	498,468	507,687	516,690
Flagler County*	93,840	96,665	99,237	104,399	108,729
Lake County	276,107	288,458	298,614	312,777	320,720
Marion County	287,920	296,419	301,545	312,462	321,791
Orange County	997,848	1,042,308	1,074,139	1,094,082	1,112,719
Osceola County	274,531	293,318	304,881	324,246	336,759
Polk County	488,491	511,478	527,553	544,431	578,747
Seminole County	361,587	371,088	378,086	380,937	383,587
Sumter County	97,312	100,678	104,184	111,361	117,280
Volusia County	426,112	437,575	443,090	449,100	459,998
CFMPOA Region	3,785,894	3,931,204	4,029,797	4,141,482	4,257,020

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

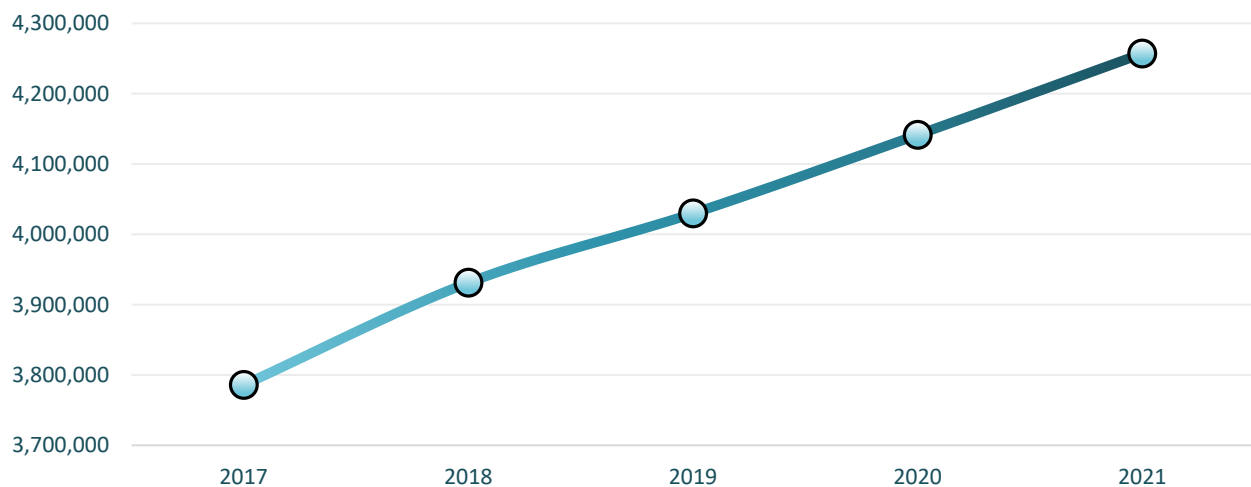
Source(s): Florida Dept. of Highway Safety and Motor Vehicles⁴⁹

Licensed Drivers	2017	2018	2019	2020	2021
Lake-Sumter MPO	373,419	389,136	402,798	424,138	438,000
MetroPlan Orlando	1,633,966	1,706,714	1,757,106	1,799,265	1,833,065
Ocala Marion TPO	287,920	296,419	301,545	312,462	321,791
Polk TPO	488,491	511,478	527,553	544,431	578,747
River to Sea TPO*	519,952	534,240	542,327	553,499	568,727
Space Coast TPO	482,146	493,217	498,468	507,687	516,690

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Highway Safety and Motor Vehicles⁴⁹

Licensed Drivers in the Central Florida MPO Alliance Region
2017-2021



Appendix 2 | Highway Statistics

County & State Roadway Centerline Miles

Centerline miles measure the total length of a roadway regardless of the number of lanes present. The tables below show lane miles, per county and TPO, from 2017 to 2021.⁵⁰

County & Local Road Miles	2017	2018	2019	2020	2021	2017-21
						% Change
Brevard County	3,098	3,109	3,121	3,132	3,133	1.1%
Flagler County*	884	887	888	888	889	0.6%
Lake County	2,102	2,139	2,238	2,271	2,313	10.0%
Marion County	3,556	3,517	3,519	3,519	3,521	-1.0%
Orange County	4,258	4,286	4,280	4,320	4,347	2.1%
Osceola County	1,344	1,366	1,394	1,396	1,407	4.7%
Polk County	4,008	4,019	4,021	4,026	4,064	1.4%
Seminole County	1,522	1,526	1,524	1,551	1,551	1.9%
Sumter County	974	1,105	1,020	1,016	1,015	4.2%
Volusia County	2,995	3,003	2,994	3,097	3,114	4.0%
CFMPOA Region	24,741	24,957	24,999	25,216	25,354	2.5%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

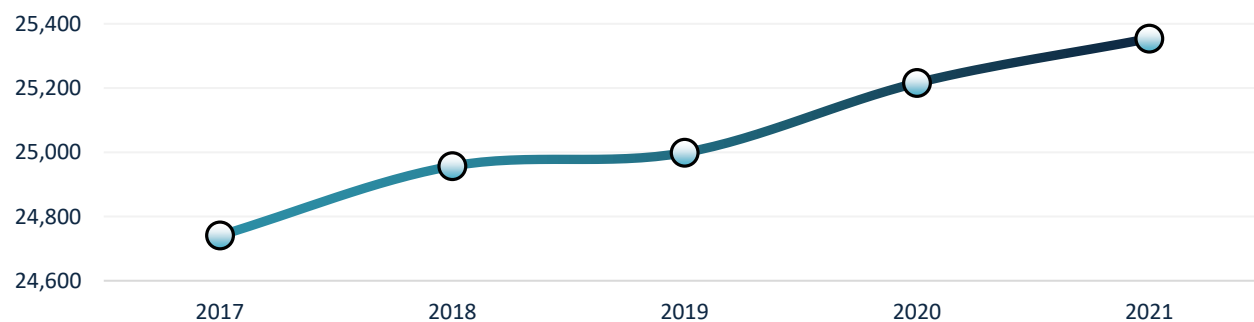
Source(s): Florida Dept. of Transportation, Reports of Highway Mileage

County & Local Road Miles	2017	2018	2019	2020	2021	2017-21
						% Change
Lake-Sumter MPO	3,076	3,244	3,258	3,287	3,328	8.2%
MetroPlan Orlando	7,124	7,178	7,198	7,267	7,305	2.5%
Ocala Marion TPO	3,556	3,517	3,519	3,519	3,521	-1.0%
Polk TPO	4,008	4,019	4,021	4,026	4,064	1.4%
River to Sea TPO*	3,879	3,890	3,882	3,985	4,003	3.2%
Space Coast TPO	3,098	3,109	3,121	3,132	3,133	1.1%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, Reports of Highway Mileage

County and City Roadway Miles, Central Florida MPO Alliance Region
2017-2021



State Highway System Lane Miles

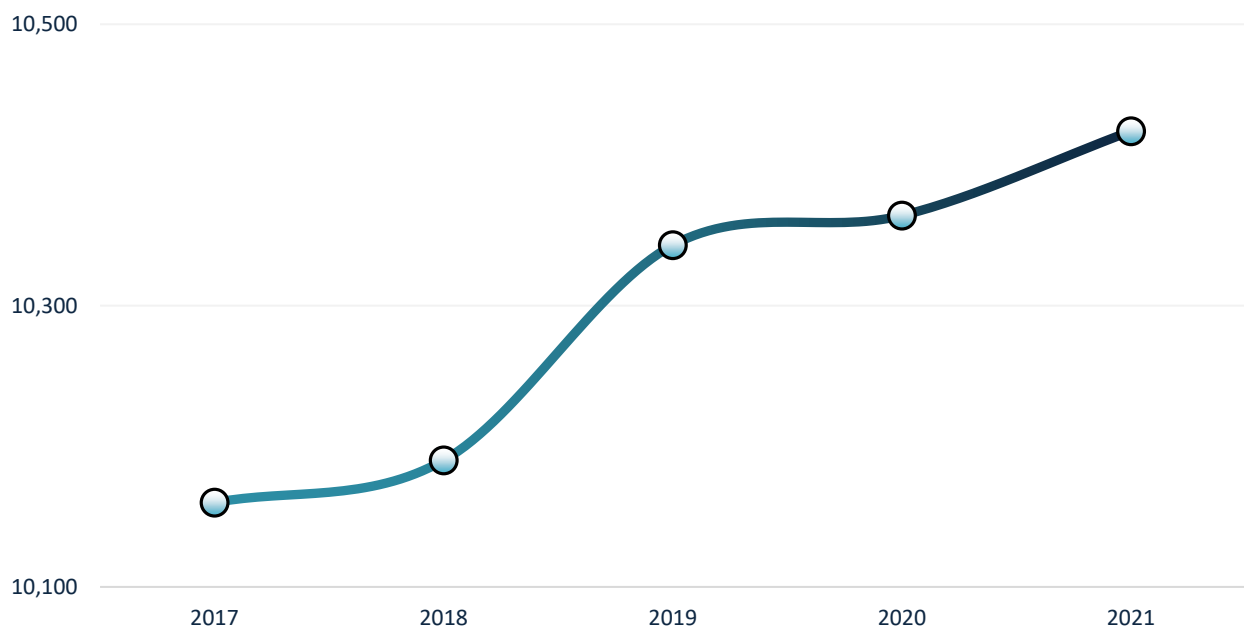
The tables below summarize the total lane miles on the Florida State Highway System (SHS) for each of the 10 counties and 6 TPO's that are a part of the Central Florida MPO Alliance. Lane miles are calculated by multiplying the number of lanes by the number of miles of roadways. For example: A 2-lane, one-mile-long roadway has 2.0 lane miles.^x

State Hwy. System Lane Miles	2017	2018	2019	2020	2021	2017-21
						% Change
Brevard County	1,398	1,400	1,401	1,399	1,403	0.4%
Flagler County*	343	343	343	343	343	0.0%
Lake County	767	780	788	793	793	3.4%
Marion County	935	936	944	942	942	0.7%
Orange County	1,978	1,990	2,058	2,060	2,079	5.1%
Osceola County	748	748	755	762	762	1.9%
Polk County	1,669	1,669	1,671	1,682	1,682	0.8%
Seminole County	510	512	521	521	529	3.7%
Sumter County	417	417	461	461	466	11.8%
Volusia County	1,395	1,395	1,401	1,401	1,425	2.2%
CFMPOA Region	10,160	10,190	10,343	10,364	10,424	2.6%

* Portions of Flagler County are not included in the CFMPOA Alliance region. This table includes all of Flagler County

Source(s): Florida Dept. of Transportation, Reports of Highway Mileage

State Highway System Centerline Miles, Central Florida MPO Alliance Region
2017-2021



Appendix 3 | System Performance Measures

The State of Florida has adopted targets for a number of system performance measures tied to four main categories: 1) Safety; 2) Pavement and Bridge Conditions; 3) System Performance; and 4) Transit Access Management. Statistics for these measures are found below.

PM	Description	LSMPO	MPorl.	OMTPO	PTPO	R2CTPO	SCTPO	Florida	Target
1. Safety									
1.1	Fatalities	66	257	88	134	142	103	3,774	0
1.2	Fatalities per 100 Million Vehicle Miles Traveled	1.42	1.15	1.91	1.84	1.93	1.53	1.73	0
1.3	Serious Injuries	365	2,166	412	379	762	420	15,614	0
1.4	Serious Injuries per 100 Million Vehicle Miles Traveled	7.74	9.80	8.94	5.19	10.33	6.23	7.52	0
1.5	Bike/Ped Fatalities & Serious Injuries	41	399	56	73	108	102	3,166	0
2. Bridge and Pavement Condition									
2.1	% Interstate Pavement in Good Condition	86.6%	41.7%	66.4%	48.2%	82.6%	85.1%	70.5%	> 60%
2.2	% Interstate Pavement in Poor Condition	0.0%	3.2%	0.0%	0.0%	4.4%	0.0%	0.3%	< 5%
2.3	% Non-Interstate NHS Pavement in Good Condition	50.9%	42.4%	37.8%	67.6%	N/A	54.0%	47.5%	> 40%
2.4	% Non-Interstate NHS Pavement in Poor Condition	0.1%	0.1%	0.0%	0.2%	N/A	0.3%	0.6%	< 5%
2.5	% NHS Bridge Pavement Deck Area in Good Condition	54.4%	81.8%	59.1%	79.2%	60.0%	42.2%	61.5%	> 50%
2.6	% NHS Bridge Pavement Deck Area in Poor Condition	0.0%	0.1%	0.0%	0.0%	0.2%	0.4%	0.9%	< 10%
3. System Performance									
3.1	% Person Miles Reliable on Interstate	100%	55%	100%	90%	100%	100%	82%	> 70%
3.2	% Person Miles Reliable on Non-Interstate NHS	97%	86%	96%	93%	92%	94%	84%	> 50%
3.3	Truck Travel Time Reliability Index	1.32	2.62	1.42	1.33	1.13	1.07	1.43	< 2.00

Source(s): See following page

For measures 3.4 through 4.4, please reference the links to the MPO documents below, as reporting for these performance measures varies.

- [Lake Sumter MPO](#)
- [MetroPlan Orlando](#)
- [Ocala Marion TPO](#)
- [Polk TPO](#)
- [River to Sea TPO](#)
- [Space Coast TPO](#)

Sources and Dates by PM and MPO

Source year depends on the latest reporting and reporting methodology for each MPO.

PM #	Source	LSMPO	MPOrl.	OMTPO	PTPO	R2CTPO	SCTPO	Florida
1.1	FDOT, FLHSMV	2014-2018	2014-2018	2016-2020	2020	2016-2020	2021	2021
1.2	FDOT, FLHSMV	2014-2018	2014-2018	2016-2020	2020	2016-2020	2021	2021
1.3	FDOT, FLHSMV	2014-2018	2014-2018	2016-2020	2020	2016-2020	2020	2021
1.4	FDOT, FLHSMV	2014-2018	2014-2018	2016-2020	2020	2016-2020	2020	2021
1.5	FDOT, FLHSMV	2014-2018	2014-2018	2016-2020	2020	2016-2020	2020	2021
2.1	FDOT	2019	2019	2019	2018	2020	2021	2021
2.2	FDOT	2019	2019	2019	2018	2020	2021	2021
2.3	FDOT	2019	2019	2019	2018	N/A	2021	2021
2.4	FDOT	2019	2019	2019	2018	N/A	2021	2021
2.5	FDOT	2022	2022	2022	2022	2022	2022	2022
2.6	FDOT	2022	2022	2022	2022	2022	2022	2022
3.1	FDOT	2019	2019	2019	2016	2020	2020	2021
3.2	FDOT	2019	2019	2019	2016	2020	2020	2021
3.3	FDOT	2019	2019	2018	2016	2020	2020	2021

Note: Multiple years implies a rolling average used

Appendix 4 | Source Documentation

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