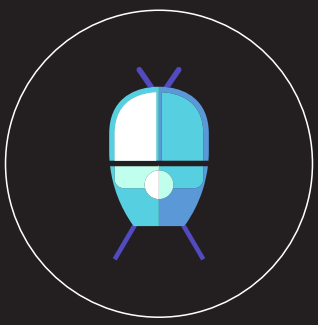
FREIGHT MOVEMENT IN TENNESSEE

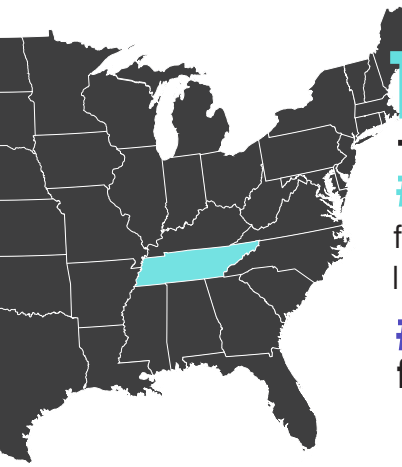


TN TDOT Department of Transportation

HIGHWAYS

430 MILLION TONS
of freight shipped, valued at
$756.5 BILLION*

67% of freight volume and
66% **OF FREIGHT VALUE**
IS SHIPPED BY TRUCKS*



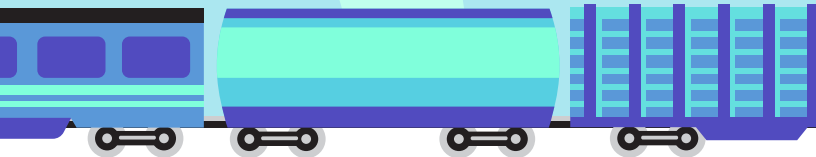
TENNESSEE
RANKS
#9 IN THE NATION
for transportation and logistics employment &
#3 IN THE NATION
for trucking employment**

**Freight Analysis Framework Version 4.5.1, 2018*
***U.S. Cluster Mapping Project, 2017*

RAILROADS

6 OF 7
CLASS I RAILROADS &
2,500 TOTAL MILES
OF FREIGHT RAIL*

208 MILLION TONS
OF RAIL CARGO CARRIED IN TENNESSEE:
#13 IN THE NATION**



MEMPHIS
IS ONE OF ONLY FOUR
U.S. cities home to 5 class one railroads.

SHIPMENTS FROM MEMPHIS BY RAIL CAN REACH
45 STATES, CANADA AND MEXICO WITHIN 2 DAYS***

*Tennessee, Transportation by the Numbers, Bureau of Transportation Statistics, 2020
**Association of American Railroads State Rankings, 2017
*** Cushman & Wakefield, 2020

AIR

MEMPHIS INTERNATIONAL AIRPORT IS
1ST IN NORTH AMERICA &
2ND IN THE WORLD
BUSIEST CARGO AIRPORT*

WATER

TENNESSEE HAS
950 MILES
of navigable waterways
11TH IN THE NATION**

PORTS & WATERWAYS SUPPORT
81,000 JOBS &
$13.2 BILLION
IN ECONOMIC IMPACTS IN TENNESSEE**

** Airports Council International, 2020*
*** Inland Rivers, Ports, & Terminals Inc., 2018*

TDOT FREIGHT FOCUS

Freight transportation is a critical part of economic development, job creation, and global growth for Tennessee. Approximately 430 million tons ($756 billion worth of goods) was moved via Tennessee's infrastructure in 2018. Tennessee has a history of success with attracting and retaining industries from diverse freight sectors such as automotive, manufacturing, and transportation industries. Tennessee Department of Transportation (TDOT) recognizes the importance of freight to the State's economy and has undertaken several key initiatives in support of strategic investment in freight-related infrastructure. TDOT has completed an update to the state's Long Range Transportation Policy Plan that includes a more robust Multimodal Freight Plan, organized statewide and regional freight advisory committees, and completed an update to the Statewide Travel Demand Model. TDOT has also completed major corridor studies on I-24, I-75, I-65, and I-55/I-75/I-26 and is in the process of completing a corridor study for I-40/I-81.

I-65, a major freight corridor in Tennessee, runs from the Alabama state line to the Kentucky state line. The I-65 corridor study was completed in 2017. The purpose of the study is to investigate a range of multimodal solutions to address future travel demands, with emphasis on managing congestion, improving safety, maximizing the potential for freight diversion, and preserving and enhancing the corridor's economic benefits. For more info visit *tinyurl.com/i65multimodalcorridorstudy*.

I-24 is one of the Tennessee's primary freight assets, providing a connection from the southeastern U.S. to north of Tennessee. The I-24 corridor study produced 12 possible improvement strategies to improve freight mobility. Some of these strategies include the relocation or reconstruction of key freight facilities such as rail yards or locks/dams, improved signage on major interchanges, and the continued support of the statewide freight advisory committee. For more info visit *tinyurl.com/i24multimodalcorridorstudy*.

TENNESSEE FREIGHT ASSETS

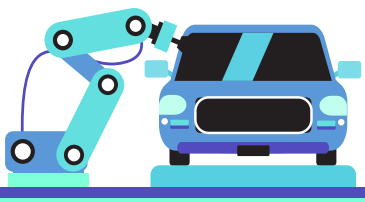
AUTOMOTIVE INDUSTRY SPOTLIGHT

TENNESSEE IS HOME TO

900 AUTOMOTIVE SUPPLIERS &

THREE ARE MAJOR

automotive assembly plants*



$31 BILLION

in motorized vehicles were EXPORTED FROM **TENNESSEE IN 2018****

NISSAN

- 10,828 employees
- Locations in Smyrna, Decherd and Franklin

VOLKSWAGEN

- 2,417 employees
- Locations in Lenoir City and Chattanooga

GENERAL MOTORS

- 1,921 employees
- Located in Spring Hill

** TNECD, CERT, Tennessee's Automotive Cluster, 2019*
***Tennessee, Transportation by the Numbers, Bureau of Transportation Statistics, 2020*

THE FUTURE OF FREIGHT

RESEARCH DEVELOPMENT

Since 2016, TDOT has been focused on freight research with more than $1 million in research funds.

UNIVERSITY PARTNERS INCLUDE:

- Tennessee State University
- University of Memphis
- University of Tennessee – Knoxville
- Vanderbilt University

RESEARCH TOPICS

- Resilience of the freight network
- Freight congestion and mitigation
- Incident management
- Multi-modal freight analysis
- Energy and freight movement
- Last mile connectivity

ADVANCES IN TECHNOLOGY

Truck platooning is an innovative technology allowing trucks to drive semi-autonomously in tandem using wireless technology.

BENEFITS OF PLATOONING

- **Congestion and safety** – more room on the road and faster braking response systems.
- **Economic** – opportunities for the transportation and logistics sector.
- **Environment** – less fuel consumption and CO_2 emissions.