



# Department of Transportation

SUPPORTING U-M RESEARCH AND SCHOLARSHIP



**\$6 MILLION**

Research Supported by DoT in FY20



**31**

Active Projects Supported by DoT



**54**

Faculty, Postdocs and Grad Students Supported Annually by DoT

The Department of Transportation partners with researchers across U-M to ensure a safe, efficient and modern transportation system, which improves quality of life and increases the productivity of workers and businesses.

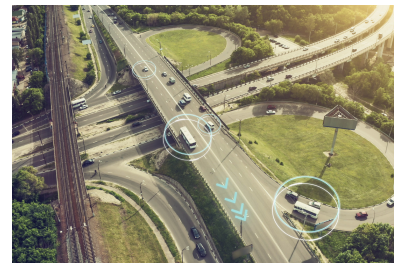
### Reducing Traffic and Congestion

Funding from the DoT Center for Connected Automated Transportation (CCAT) supports U-M research on reducing traffic and congestion in metropolitan and urban areas. Traffic lights at intersections are traditionally regulated with a base plan developed using aggregated historical data. But with sensors and cameras in a connected network, researchers aim to make real-time adjustments to the base plan to improve traffic flow in unpredictable situations.



### AVs Supporting the Vision Impaired

CCAT is funding research that allows researchers at U-M, through the use of design groups, to provide recommendations to autonomous and automated vehicle (AV) manufacturers and suppliers for how to best design vehicles and interactive systems that people with vision impairments can trust. Their findings include implementing primarily voice-based features, leveraging existing assistive technologies and designing a spectrum of interactive patterns.



### Improving Wheelchair Safety

U-M researchers are working to ensure that individuals who travel in wheelchairs have the same level of safety as those who travel in traditional vehicle seats. Using a combination of sled testing, computer modeling, hardware development and volunteer participants, the project focuses on how to improve safety for individuals traveling in wheelchairs. Utilizing a wheelchair tie down and occupant restraint system, U-M researchers are ensuring safe, efficient and equitable transportation for all.



For more information about U-M research, visit [research.umich.edu](https://research.umich.edu)

