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October 23, 2020



MoveVU gets \$8.4M from TDOT and VU

The funding will enable implementation of several initiatives over three years. The project serves as a template for other major employers and activity centers wanting to reduce their carbon footprint and expand sustainable transportation options, said Mark Abkowitz, professor of civil and environmental engineering.



\$2.6M for AI-driven I-24 Smart Corridor

The USDOT awarded Vanderbilt, TDOT, and the Southwest Research Institute more than \$2.6 million to use artificial intelligence, including dynamic signs and ramp metering, and improve the integrated corridor management. Dan Work, associate professor of civil and environmental engineering, leads the project.



\$3.3M to advance grid management

Professors Hiba Baroud and Sankaran Mahadevan will lead an effort in a joint partnership with Georgia Tech and the Midcontinent Independent Supply Operator to develop new machine learning algorithms that support decision-making in near real time.

Hazard education curriculum developed



Professor Janey Camp led the development of course material aiming to help students understand risk in both abstract and tangible forms through a series of 10 modules. Students will learn about the impact of risk within their own communities.

Message from the Chair

As we all prepare to put 2020 in the rearview mirror, good news is something we all can use right now. The problems faced during the pandemic remind us that civil and environmental engineering solutions can make positive differences in our surroundings. From addressing heavy congestion of single-occupancy vehicles to stabilizing electricity prices through better grid management to educating citizens on how to mitigate everyday risk in our communities, Vanderbilt engineers are creating tangible solutions. Thank you for your continuing support of our efforts. I hope you enjoy this newsletter and I wish you a safe, healthy, and rejuvenating winter break and new year!

Douglas Adams, Ph.D.

Daniel F. Flowers Professor

Chair of the Department of Civil and Environmental Engineering

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