A DRIVING FORCE IN TRANSPORTATION ENGINEERING

INNOVATING USING ADVANCED COMPUTATIONAL METHODS AND TOOLS
To integrate sustainability, transportation, infrastructure, and logistics, UB has established the Institute for Sustainable Transportation and Logistics (ISTL), and secured $2.8 million in funding for the Tier I Transportation Informatics University Transportation Center (TransInfo UTC). Both are led and hosted by the Department of Civil, Structural and Environmental Engineering (CSEE). Faculty members in CSEE currently involved in these important efforts are Panagiotis Ch. Anastasopoulos, Qing He, Adel Sadek, and Qian Wang.

The Institute for Sustainable Transportation and Logistics (ISTL) involves engineering and management faculty groups to address the integrated discipline of transportation, logistics and supply-chain management. Education and research in this field require a cross-disciplinary approach that integrates analytical and engineering problem-solving skills with management principles. ISTL’s Master of Science in Sustainable Transportation and Logistics, one of the few joint programs of its kind in the nation, will be launched in Fall 2016.

The Tier I Transportation Informatics University Transportation Center (TransInfo UTC) funds cross-disciplinary research that utilizes data fusion to improve the safety and efficiency of highways, transit systems, and components of transportation and infrastructure systems. The Center mines data by employing a wide variety of tools and models, including methods from artificial intelligence, machine learning, statistics and econometrics, and database systems. Partners with UB in this endeavor are Rensselaer Polytechnic Institute, George Mason University, University of Puerto Rico-Mayagüez, and CUBRC.