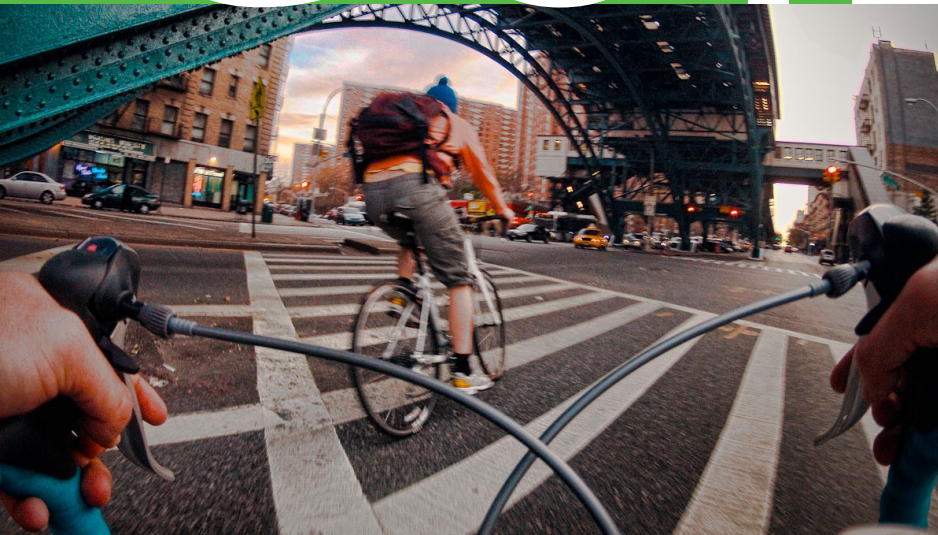


UTRC RESOURCE GUIDE



Planing and Managing Regional Transportation System in a Changing World

CONSORTIUM MEMBERS

City University of New York, Clarkson University, Columbia University, Cornell University, Hofstra University, Manhattan College, New Jersey Institute of Technology, New York Institute of Technology, New York University, Polytechnic Institute of NYU, Rochester Institute of Technology, Rowan University, Rensselaer Polytechnic Institute, Rutgers University*, State University of New York, Stevens Institute of Technology, Syracuse University, The College of New Jersey, University of Puerto Rico

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Institution

Resources and Specializations

City University of New York (CUNY)

Centers and Institutes: Institute for Transportation Systems, Universal Transportation Modal Simulation Center, Center for Logistics and Transportation, Center for Sustainable Energy, Center on Terrorism, CUNY Aviation Institute, Pavement Management Laboratory;
Other Specializations: transit operations, economic modeling, asset management, GIS/GPS/mobile technology.

Clarkson University

Specializations: bridge load rating and structural health monitoring, Smart structures, biofuels, biometrics (in transportation/security systems), oil and chemical spills.

Columbia University

Centers and Institutes: Earth Institute, Center for Sustainable Urban Development;
Other Specializations: hazard occurrence and impact on infrastructure models, risk models of hazard assessment, infrastructure behavioral models, real time control of traffic signals, provably safe systems for driver assisted merge protocols, and reliable neighborcast communications to increase the capacity of highways and airports.

Cornell University

Centers and Institutes: Transportation Infrastructure Research Center, Cornell Local Roads Program (LTAP); **Other Specializations:** lifeline engineering, planning models, non-destructive testing.

Hofstra University

Specializations: transport geography of logistics; inland freight distribution, gateways and freight corridors; globalization and transport terminals.

Manhattan College

Specializations: Structural engineering; design and construction of buildings, bridges, ships, aircraft and other flight structures, Environmental engineering; with its emphasis on the quality of water resources allows an engineer to analyze and model the environment, assess the effects of man's activities on it, and design control facilities to ensure improvement and protection of our nation's water, Geotechnical engineering; study of the behavior of various soils and designs adequate supports for all structures resting on the earth and other planets, Transportation engineering; planning, design, and construction of efficient transportation systems such as highways, airports, railways, ports, and public transport.

New Jersey Institute of Technology

Centers and Institutes: National Center for Transportation and Industrial Productivity, International Intermodal Transportation Center, TIDE (Transportation Information and Decision Engineering) Center; **Other Specializations:** dynamic systems modeling, travel behavior modeling, ITS, safety.

New York Institute of Technology

Centers and Institutes: Entrepreneurship and Technology Innovation Center (ETIC), including the Cybersecurity & IT lab and the Energy & Green Technologies lab, Center for Energy & Economics, ACM Digital Library and the IEEE Electronic Library.

New York University

Centers and Institutes: Institute for Civil Infrastructure Systems, Rudin Center for Transportation Policy and Management, Conflict Resolution Program.

Polytechnic Institute of NYU

Centers and Institutes: Urban ITS Center;
Other Specializations: traffic models, highway capacity and traffic operations.

Institution

Resources and Specializations

Rensselaer Polytechnic Institute

Centers and Institutes: Center for Infrastructure, Transportation and the Environment (CITE), Lighting/Architectural Sciences;

Other Specializations: materials science and geotechnical labs, ITS labs, freight transportation, traffic simulation, network modeling, advanced econometrics, transportation economics and planning, logistics, systems engineering.

Rochester Institute of Technology

Centers and Institutes: Laboratory for Environmental Computing and Decision Making;

Center for Integrated Manufacturing Studies;

Specializations: alternative fuels; maritime transportation; freight transportation analysis; environmental modeling of transportation systems; GIS and network analysis; Biofuels analysis.

Rowan University

Specializations: Pavement design; materials; rail crossing safety; structural design of bridges; structural design and testing of transit vehicles

State University of New York

Centers and Institutes: Albany Nanotech, Multidisciplinary Center for Earthquake Engineering Research (Buffalo), Transportation Systems Engineering (TSE) Lab (Buffalo), Center for Transportation Injury Research (Buffalo), The New York State Center for Engineering Design and Industrial Innovation (NYSCEDII) home to UB's Driving Simulator (Buffalo), Lab for Advanced Network Design, Evaluation and Research (Buffalo), International Transportation Research Center (Maritime College), New York State Strategic Center for Port and Maritime Security (Maritime College), Center for Thermal Spray Research (Stony Brook); **Other Specializations:** large-scale transportation modeling and simulation, infrastructure engineering and management, connected-vehicle research and cyber transportation systems, multi-hazard engineering and extreme events, human factors.

Stevens Institute of Technology

Centers and Institutes: Davidson Laboratory for modeling and forecasting of wind, tide, current and wave conditions to better assist preparation for and response to storms, floods, accidents, and other emergencies on water.

Specializations: Civil, Environmental, and Ocean Engineering

Syracuse University

Centers and Institutes: Rehabilitation of Transportation Civil Infrastructure; Robert Brethen Operations Management Institute; The H.H. Franklin Center for Supply Chain Management; Center of Excellence in Environmental and Energy Systems (CoE); Center for Policy Research (CPR); and Institute for National Security and Counterterrorism (INSCT).

The College of New Jersey

Specializations: Traffic data for pavement management, Adaptive Traffic Control Systems.

University of Puerto Rico

Centers and Institutes: Civil Infrastructure Research Center, Puerto Rico Transportation Technology Transfer Center (LTAP);

Specializations: safety, traffic simulation and control, transit planning.