MCITY: A PUBLIC PRIVATE PARTNERSHIP MODEL

Greg McGuire
Associate Director
AS A PUBLIC-PRIVATE PARTNERSHIP WE BRING TOGETHER INDUSTRY, GOVERNMENT, AND ACADEMIA TO ADVANCE TRANSPORTATION SAFETY, SUSTAINABILITY, AND ACCESSIBILITY FOR THE BENEFIT OF SOCIETY.
WHY PUBLIC-PRIVATE PARTNERSHIP?

If you want to go fast, go alone.
If you want to go far, go together.

Mcity addresses questions and issues that no single entity can resolve alone.
ADDRESSING SOCIETY’S PRESSING ISSUES

SAFETY  CONGESTION  ENERGY  ACCESSIBILITY
THROUGH EMERGING TECHNOLOGIES

- CONNECTED AUTOMATED VEHICLES
- 5G / EDGE COMPUTING
- NEAR REAL-TIME DATA
- MACHINE VISION / LEARNING
AND ALL FACETS OF THE MOBILITY ECOSYSTEM

- LAW
- PUBLIC POLICY
- URBAN PLANNING
- HUMAN FACTORS
RESEARCH

Members have access to results of over 50 projects representing an investment of more than $30 million.

KEY MANAGEMENT SPECIFICATION

MITIGATING LIABILITY FOR AUTOMATED VEHICLES

MOTION SICKNESS

AUGMENTED REALITY

PEDESTRIAN SAFETY

AUTO ETHERNET SECURITY
EDUCATION

120 UNDERGRADS
TECHLAB AT MCITY

200 LAW STUDENTS
LAW

500 GENERAL PUBLIC
ACADEMIC INNOVATION
UNIVERSITY OF MICHIGAN

400 PROFESSIONALS
COLLEGE OF ENGINEERING
INTEGRATIVE SYSTEMS + DESIGN
UNIVERSITY OF MICHIGAN

150 UNDERGRAD/GRADUATES
ROSS SCHOOL OF BUSINESS
UNIVERSITY OF MICHIGAN

50 PHD CANDIDATES
LAW

14 INTERNS
LAW

1000 K-12 STEM STUDENTS
UNIVERSITY OF MICHIGAN
COLLABORATION

- Roundabout behavior and real-time data  DENSO, HONDA, ECONOLITE, STATE FARM
- 5G/edge computing  VERIZON
- Cameras at intersections for safety  VERIZON, ECONOLITE
- Communications interoperability in AACE  APTIV, DENSO, FORD, TOYOTA
- Safety and roadmanship  STATE FARM, TOYOTA
- Automated vehicle liability  J.D. POWER, MILLER CANFIELD LLP
- Key management system  ALL MCITY LEADERSHIP CIRCLE COMPANIES
- Security credential management system  FORD, LEAR, APTIV
- Security for automotive Ethernet  GM, APTIV, STATE FARM
- Automated vehicle/pedestrian interactions  HONDA, STATE FARM, TOYOTA, FORD
A PPP MODEL
Avoiding Carsickness When the Cars Drive Themselves

If the future lets people focus on work instead of driving during the daily commute, many of us will have to conquer motion sickness to read memos (or tweets). Researchers are working on some fixes.
With a Laser, Researchers Say They Can Hack Alexa, Google Home or Siri

Researchers have found a way to take over voice-assisted devices like Apple's Siri by shining a light at their microphones. Haruka Sakaguchi for The New York Times

By Nicole Perirotth

Nov. 4, 2019

SAN FRANCISCO — Since voice-controlled digital assistants were introduced a few years ago, security experts have fretted that systems like Apple's Siri and Amazon's Alexa were a privacy threat and could be easily hacked.
ARTICLES & ESSAYS

Raphael Beauregard-Lacroix • September 10, 2019
Download Full Article On March 15th, 2019, the Journal of Law and Mobility, part of the University of Michigan’s Law and Mobility Program, presented its inaugural conference, entitled “(Re)Writing
Read More...

VEHICLE RENTAL LAWS: ROAD BLOCKS TO EVOLVING MOBILITY MODELS?
Journal of Law and Mobility • August 26, 2019
The laws and regulations governing mobility are inconsistent and antiquated and should be modernized to encourage innovation as we prepare for an autonomous car future. The National Highway Traffic Safety Administration (“NHTSA”) has concluded that Autonomous Vehicles or Highly Automated Vehicles (“HAVs”) may “prove to be the greatest personal transportation revolution since the popularization of the personal automobile nearly a century ago.” Preparations for a HAV world are underway as the mobility industry evolves and transforms itself at a remarkable pace. New mobility platforms are becoming more convenient, more automated and more data driven—all of which will facilitate the evolution to HAVs. However, that mobility revolution is hindered by an environment of older laws and regulations that are often incompatible with new models and platforms.
Read More...
A PPP MODEL