THE JOHNS HOPKINS NEW MOBILITY INITIATIVE

The Johns Hopkins Center for Injury Research and Policy

Selected New Mobility Initiative Projects Planned, Underway & Completed

October, 2019

Following is a sample of projects being conducted by the Johns Hopkins New Mobility Initiative. The list will be updated periodically. For the latest list, please see the Initiative web page at: http://bit.ly/JHCIRPnewmobility

	Safety	Technology	Equity
Planned	Conduct road safety inventory of Baltimore City to ensure that automated vehicles are capable of safe operation. Convene scientists to create agenda for developing new methods for assessing driver cognitive status.	Bring together leadership roundtable to align technology capabilities with community mobility needs. Develop Baltimore based testbed to trial new mobility deployment options. Develop and evaluate innovative mobility technology applications to improve health care access. Publish a paper describing how new mobility concepts can advance public health.	Design public opinion surveys to identify community needs, perceptions, and preferences for new mobility. Demonstrate and evaluate applications of new mobility to reduce inequities and resulting health disparities.
Underway	Examining the feasibility of data pooling system to promote safety of autonomous vehicles Funder: Johns Hopkins University Discovery Award Making Automated Mobility a 'Win' for Public Health Funder: Center for Advancing Research in Transportation Emissions, Energy, and Health Examine barriers and facilitators of child passenger safety in ridesharing and autonomous vehicle design. Funder: Centers for Disease Control and Prevention Facilitate consensus among domestic and international safety constituents on strategies for implementing the Safe System approach. Funder: FIA Foundation	Creating a testbed for new mobility technologies to address social needs Funder: Johns Hopkins University Discovery Award	Steering autonomous vehicles to provide safe and equitable transportation Funder: Hopkins Center for Health Disparities & Solutions National Institutes of Health Conduct epidemiological research to guide the equitable application of new mobility innovations.
Completed	Averting an autonomous vehicle winter. Funder: Johns Hopkins Discovery Award Three world-class symposia on AV safety in 2016 and 2017, bringing together leaders from the transportation industry, government, and academia.	Using epidemiological and simulation data to inform the testing of autonomous vehicles. Funder: Johns Hopkins Institute for Data Intensive Engineering and Science Publishing Invited Paper for Injury Prevention Journal: How Can Public Health Principles Inform the Testing and Build Trust in Automated Vehicles? Ehsani JP, Michael J, Igusa T. Inj Prev Epub ahead of print: [please include Day Month Year]. doi:10.1136/ injuryprev-2019-043136	Are we asking the right ethical questions about autonomous vehicles? Funder: Johns Hopkins Berman Institute for Bioethics
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