



TOMNET Transportation Center

Teaching Old Models New Tricks

[HTTP://WWW.TOMNET-UTC.ORG](http://www.tomnet-utc.org)

TOMNET LEADERSHIP WEBINAR SERIES

Travel Behaviors and Vehicle Ownership in the Era of the "3 Revolutions" in Transportation



Giovanni Circella, PhD
Senior Investigator for TOMNET
Senior Research Engineer
Georgia Institute of Technology

Friday, March 22, 2019
2:00PM EDT

About the Talk

The three transportation "revolutions" – shared mobility, electrification and vehicle automation – are likely to radically transform transportation (and society, more in general). The adoption and frequency of use of (on demand) shared mobility services, including ridehailing (e.g. Uber and Lyft), carsharing, bikesharing and e-scooter sharing are already causing rapid changes in travel patterns and the use of other travel modes, in particular among younger travelers and urban residents. The effects of these disruptive forces sum up to (and are often confused with) those of other factors affecting travel patterns, including changes in lifestyles and household composition, changing economic and work conditions, the expansion of the digital technology and the adoption of e-shopping, which impact the way individuals interact, work, socialize, and travel. In this seminar, I present results from the California Panel Study of Emerging Transportation Trends, a longitudinal study that investigates the evolution of travel patterns and the adoption of new transportation technologies in California, and discuss research questions related to current and future changes in travel choices and private vehicle ownership, the adoption of vehicle automation and consumers' interest in Mobility as a Service (MaaS) solutions.

About the Speaker

Giovanni Circella is the Honda Distinguished Scholar for New Mobility Studies and the Director of the 3 Revolutions Future Mobility Program at the University of California, Davis, and a Senior Research Engineer in the School of Civil and Environmental Engineering of the Georgia Institute of Technology. Dr. Circella's research interests include travel behavior, travel demand modeling, travel survey methods, emerging transportation services, shared mobility, autonomous vehicles and policy analysis. His recent research has focused on the impacts of individual attitudes, land use features, information and communication technology (ICT), shared mobility and ridehailing (e.g. Lyft and Uber) on travel behavior and auto ownership, and the mobility patterns of specific population segments (e.g. "millennials") and in various regions of the U.S., Europe, South America and the Middle East. Dr. Circella is the Chair of the TRB Committee on ICT and Transportation (ADB20), and a member of the Transportation and Sustainability (ADD40) and the Travel Behavior and Values (ADB10) committees. He also serves in the NCHRP 20-102, 20-102(01), 20-102(09) and 20-102(19) panels on the impacts of connected and automated vehicles. Dr. Circella regularly cooperates with metropolitan planning organizations (MPOs), other agencies and non-profit organizations in the U.S., Europe and South America.

The webinar will be webcast live and recorded. No registration is required.

To connect, please join the following Zoom Meeting with your full name:

<https://zoom.us/join>

Meeting ID: 963-921-833

TOMNET is a US Department of Transportation Tier 1 University Transportation Center that aims to develop new methods, tools, and algorithms for integrating attitudes, values, and perception variables in regional transportation planning models in an effort to enhance behavioral realism and sensitivity of travel forecasts when analyzing a wide variety of future scenarios. The Center is led by Arizona State University, and includes Georgia Tech, University of South Florida, and the University of Washington as consortium partners. The Center is conducting the TOMNET Leadership Webinar Series to help advance technology transfer, disseminate research, and foster workforce development.

