



TRANSPORTATION INNOVATION SERIES

*A strategic outreach series hosted by the
Office of the Assistant Secretary for Research and Technology*

Traditional and Emerging Approaches for Pedestrian and Bicycle Safety and Mobility

Dr. Shashi Nambisan and Dr. Chris Cherry, University of Tennessee
Wednesday, October 19, 2016 • 1:00pm – 2:00pm
USDOT Headquarters West Building Conference Center – Room 6



Dr. Shashi
Nambisan

This presentation will address aspects of pedestrian and bicycle safety and mobility in two parts. The first part will summarize efforts on and findings from a multi-jurisdictional initiative in the Las Vegas metropolitan area to enhance pedestrian safety. This will include an overview of several design and operational strategies at pedestrian crossing locations, measures

to evaluate their effectiveness (MOEs), and results of analyses in terms of their relative costs and MOEs. The second part will address the influence of advances in vehicle technologies (e.g., e-bikes) and data collection technologies (e.g., GPS and cameras) on safety among cyclists. The role of new datasets, such as GPS probe data or continuous video monitoring, for bicycle safety analysis will be explored. The discussion will first focus on route-choice behavior using onboard telematics or smartphone data. The



Dr. Chris Cherry

next topic that will be discussed is way these datasets can leverage other datasets such as continuous video monitoring to improve safety at specific areas. An application of this approach is shown for a problematic bicycle/rail crossing. This presentation will also includes an

exploration of transportation issues related to e-bikes and how they are likely the most primed to be instrumented and connected vehicles.

Dr. Shashi Nambisan is a Professor of Civil Engineering at University of Tennessee, Knoxville (UT) and the Education Director for the Southeastern Transportation Center at UT. Dr. Chris Cherry, is an Associate Professor at the University of Tennessee. He received his BS and MS in Civil Engineering from the University of Arizona and received his PhD in Civil and Environmental Engineering from the University of California, Berkeley in 2007.

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TTY: 202-366-6242 at least 3 business days prior to the event.