Active Transportation
Implementing the Benefits

- Walking and Cycling in America
- Leveraging the Health Effects
- Boosting Business with Bicyclists
- Importable Lessons from Europe
- Measuring Multimodal Mobility
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ACTIVE TRANSPORTATION: IMPLEMENTING THE BENEFITS

3 INTRODUCTION
Making Way for Pedestrians and Bicycles: Realizing the Environmental, Health, and Economic Benefits
Michael J. Cynecki
Walking and bicycling are not exclusively recreational—they are viable, beneficial, economical, and environment-friendly modes of transportation. Research in the planning, design, operations, maintenance, and economics of pedestrian and bicycle facilities is helping to integrate these modes into the transportation system.

J. Richard Kuzm yak and Jennifer D ill
The percentage of daily trips in the United States made by walking or bicycling is far lower than in Western European countries. The authors explore what makes the United States so different, examining the demographics and the frequency, distance, and purpose of pedestrian and bicycle travel; the influences of the natural and built environments; safety concerns; and research needs, including data and planning tools.

8 Innovative Data Collection for Pedestrians, Bicycles, and Other Non–Motor Vehicle Modes
Lisa Aultman-Hall, Jonathan Dowds, and Brian H. Y. Lee

16 Traveler Response to Pedestrian and Bicycle Facilities and Programs
Richard H. Pratt

18 Leveraging the Health Benefits of Active Transportation: Creating an Actionable Agenda for Transportation Professionals
Laura Sandt, Nancy Pullen-Seufert, Seth LaJeunesse, and Dan Gelinne
The evidence of the health benefits from walking and bicycling is mounting, and many initiatives showcase how public health and transportation professionals have been working together to make communities more pedestrian-, bicycle-, and transit-friendly.

22 Measuring Walking and Cycling for Transportation: Expert Panel Examines Practice, Challenges, and Gaps
Eloisa Tigre Raynault and Ed Christopher

25 Advancing the Discourse on Health and Transportation
Eloisa Tigre Raynault and Ed Christopher

26 Business Cycles: Catering to the Bicycling Market
Kelly J. Clifton, Sara Morrissey, and Chloe Ritter
Several studies have traced the influence of bicycle tourism and the cycling industry on local and regional economies; emerging studies are looking at the cyclist as a consumer and the potential economic benefits for specific types of businesses. The authors also describe phenomena such as bicycle-supported development and innovative programs and practices, such as bike corrals, bike sharing, and bike valet parking.

29 Exploring the Relationship Between Consumer Behavior and Mode Choice
Kelly J. Clifton, Sara Morrissey, and Chloe Ritter

33 Regulating Emerging Light Electric Vehicles to Enhance Urban Transportation System Sustainability
Geoffrey Rose and Chris Cherry

34 Walking and Cycling in Western Europe and the United States: Trends, Policies, and Lessons
Ralph Buehler and John Pucher
Through an overview of cycling and walking trends and policies in Western Europe, the authors draw lessons for programs that can succeed in the United States, including improvements in the transportation infrastructure, with a focus on safety; traffic calming in residential neighborhoods; coordinating walking and cycling with public transport; compact, mixed-use development; and other importable, foundational features.

43 Understanding Right-Turn Car–Cycle Conflicts at Intersections: Findings from Site-Based and In-Car Observations
Divera A. M. Twisk and Nicole van Nes

44 Transferring European Bicyclist- and Pedestrian-Friendly Designs and Practices to the United States: The Importance of Comprehensive Approaches That Include Evaluation
Shawn M. Turner, Gabriel K. Rousseau, and Charles V. Zegeer
In 2011 Tropical Storm Irene washed out more than 2,000 roadway segments, undermined more than 1,000 culverts, and damaged more than 300 bridges in Vermont, in a possible preview of the more intense and frequent storm events that scientists have associated with the changing climate. As it rebuilds the transportation network to be more flood-resilient, the Vermont Transportation Agency is exploring and implementing short- and long-term approaches to climate change adaptation.

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State departments of transportation and metropolitan planning organizations are implementing policies to mitigate and adapt to climate change. Articles in the July–August issue of TR News present an array of initiatives—the rationales, strategies, progress, and goals—including key facts that transportation leaders and professionals should know about climate change and transportation; Washington State’s commute trip reduction program; Oregon’s solar highway program; Michigan’s preparations for adapting to extreme temperatures and precipitation events; establishing a biofuel infrastructure in Tennessee; a multistate, West Coast partnership to showcase sustainable transportation solutions on Interstate 5; eco-driving policies to reduce fuel consumption and greenhouse gas emissions; plus relevant findings from National Research Council studies and more.