

TR NEWS



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

THE NATIONAL ACADEMIES

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National Academy of Sciences National Academy of Engineering Institute of Medicine National Research Council

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ACTIVE TRANSPORTATION: IMPLEMENTING THE BENEFITS

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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.

4 Walking and Bicycling in the United States: The Who, What, Where, and Why

J. Richard Kuzmyak and Jennifer Dill

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

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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.

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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.

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Kelly J. Clifton, Sara Morrissey, and Chloe Ritter

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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.

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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



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COVER: Bicycle lanes on
Pennsylvania Avenue
in the nation's capital.
(Photo: Richard Layman)

TR NEWS

features articles on innovative and timely research and development activities in all modes of transportation. Brief news items of interest to the transportation community are also included, along with profiles of transportation professionals, meeting announcements, summaries of new publications, and news of Transportation Research Board activities.

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46 Measuring Multimodal Mobility with the Highway Capacity Manual 2010 and Other New Analysis Tools

Martin Guttenplan and Seleta Reynolds

The authors present the benefits of a holistic approach using new tools for measuring mobility to mainstream the planning, design, and operations of multimodal facilities serving bicycle, pedestrian, transit, and automobile traffic: reducing injuries and fatalities, boosting economic drivers such as home values and retail receipts, and improving livability and sustainability.

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COMING NEXT ISSUE

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; ecodriving policies to reduce fuel consumption and greenhouse gas emissions; plus relevant findings from National Research Council studies and more.



PHOTO: VERMONT AGENCY OF TRANSPORTATION

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.