Impact of Changing Demographics on the Transportation System

October 27–28, 2008
Keck Center of the National Academies
Washington, D.C.

Organized by
Transportation Research Board

Sponsored by
Research and Innovative Technology Administration
U.S. Department of Transportation

www.TRB.org/conferences/2008/ImpactDemographics
Transportation Adapts to Changing Population

You are invited to participate in discussions with researchers, practitioners, and policy makers to share information on the Impact of Changing Demographics on the Transportation System. This is the third University Transportation Center–oriented conference organized by TRB and supported by the U.S. Department of Transportation’s Research and Innovative Technology Administration.

Conference objectives are to

- Encourage interaction and synergies among universities, government, private interests, and TRB committees;
- Identify key knowledge gaps;
- Develop a research agenda;
- Inform transportation policy; and
- Identify promising initiatives for university research.

Sessions and papers will relate to the potential impact of four demographic forces on transportation in the next 20 years:

- Aging and demographic transition
- Immigration internally and from abroad
- Changing racial and ethnic mix
- Gender differences

Of special interest is the impact of these demographic forces on (a) the transportation workforce, (b) transportation system demand, and (c) safe mobility.

On behalf of the Planning Team, I encourage you to participate actively in the discussions to help develop a research agenda.

—Joseph F. Coughlin
Conference Chair
Director, New England University Transportation Center and AgeLab
Massachusetts Institute of Technology
MONDAY, OCTOBER 27

7:45 a.m.–8:30 a.m., Atrium
Continental Breakfast

8:30 a.m.–9:30 a.m., Room 100
Opening Session

Welcome
Joseph F. Coughlin, Massachusetts Institute of Technology and Conference Chair

Department of Transportation Interest in Urban Traffic Control Systems and in Demographics
Cheryl McQueary, Deputy Administrator, Research and Innovative Technology Administration, U.S. Department of Transportation

Change in U.S. Demographic Composition: Drivers and Consequences of Shifting Patterns
Carlos H. Arce, NuStats, LLC

9:30 a.m.–11:00 a.m., Room 100
Immigration Internally and from Abroad Plenary Session
Elaine Murakami, Federal Highway Administration, presiding

Immigrants and Travel Behavior: A Tale of Migration, Mobility, and Assimilation
Evelyn Blumenberg, University of California, Los Angeles, Institute of Transportation Studies

Immigration Trends in the United States: Implications for Travel Demand, Transportation Systems, and Public Policy
Daniel Chatman, Rutgers University

11:00 a.m.–11:30 a.m., Atrium
Break

11:30 a.m.–1:00 p.m., Room 100
Gender Differences Plenary Session
Thomas E. Marchessault, U.S. Department of Transportation, retired, presiding

Does Gender Matter? Changes, Choices, and Consequences for Transportation Policy
Randall Crane, University of California, Los Angeles, Institute of Transportation Studies
The Mobility and Safety of Older Women in 2030
Sandra Rosenbloom, University of Arizona; and Susan Herbel, Cambridge Systematics, Inc.

1:00 p.m.–2:00 p.m., Atrium
Lunch

2:00 p.m.–3:30 p.m.
Breakout Paper Sessions

Aging and Demographic Transition, Part 1, Room 105
Elaine Murakami, Federal Highway Administration, presiding

From Core to Periphery: Decentralization and Transport Investment in New York City
Cameron Gordon and Jonathan Peters, University of Canberra

Relative Desired Mobility of Elderly Women Living in Rural and Small Urban Locations in North Dakota
Jill Hough, North Dakota State University

Generational Marketing: How to Engage All Generations in the World of Transportation
Karen Smith, Southeastern Institute of Research, Inc.

Determinants of Travel Behavior in Aging Societies: A Comparison of Germany and the United States
Ralph Buehler, Rutgers University and Virginia Tech

Immigration Internally and from Abroad, Part 1, Room 109
Alan E. Pisarski, Independent Consultant, presiding

Commute Mode and Ethnic Neighborhoods
Evelyn Blumenberg, University of California, Los Angeles, Institute of Transportation Studies

Temporal Changes in the Heterogeneous Impact of Immigrant Status on Household Auto-Ownership Levels
Sivaramakrishnan Srinivasan, University of Florida

An Exploration of the Geo-Demographic Characteristics Impacting Transit Access of the Limited-English-Proficiency Population
Sudeshna Sen, NuStats

Changing Racial and Ethnic Mix, and Gender Differences, Room 110
Robert Plymale, Marshall University, presiding

Highway Finance Policies: Impacts in Daily Life
Nancy McGuckin, Travel Behavior Associates
Transport and Aging in Black America:
Cultural Practices, Challenges, and Opportunities
   Beverly Ward, University of South Florida
Variations in Hispanic Travel
   Stacey Bricka, NuStats
The Impact of Urban Revitalization and Relocation on Transportation System Demand
   Manoj K. Jha, Morgan State University
   Diane Jones, Morgan State University
   Regina Irizarry, Morgan State University

3:30 p.m.–4:00 p.m., Atrium
Break

4:00 p.m.–5:30 p.m.
Breakout Paper Sessions

Aging and Demographic Transition, Part 2, Room 105
Elinor Ginzler, Association for the Advancement of Retired People, presiding

   The Impact of Population Aging on Travel Behavior: A Comparison of Four Large Urban Areas (Montréal, Paris, Lyon, and Lille)
      Jimmy Armoogum and Virginie Dejoux, French National Institute for Transport and Safety Research, Department of Economics and Sociology of Transports
   Boomers’ Travel Behavior: Evidence from Age-Restricted Developments
      Francis Hebbert, Massachusetts Institute of Technology
   European Experience of Safe Mobility for Older People
      Christopher Mitchell, retired, Cochair of TRB Accessible Transportation and Mobility Committee
   Impact of Changing Demographics on Household- and Individual-Level Travel Attributes
      Taha Rashidi, University of Illinois at Chicago

Immigration Internally and from Abroad, Part 2, Room 109
John M. Mason, Auburn University, presiding

   The Travel Behavior of Migrants: Moving the Research Forward
      Michael Smart, University of California, Los Angeles
   Transportation Experiences of Mexican Immigrants in California: Results from Focus Group Interviews
      Susan Handy, University of California, Davis
   The Impact of Immigration and Assimilation on Public Transit: Filling the Knowledge Gaps to Improve Transit Service for Limited-English-Proficiency Customers
      Sudeshna Sen, NuStats
Transportation System Demand, Room 110
Arnold Konheim, U.S. Department of Transportation, presiding

Trip Generation Studies for Special Generations
Mansoureh Jeihani, Morgan State University

The Impact of Variation in Activity and Demand Forecasts on Statewide Multimodal Planning
John Miller, Virginia Transportation Research Council

Safe Mobility for an Aging Nation: An Integrated Examination of Elderly Activity–Travel Patterns and Crash Occurrence
Ram Pendyala, Arizona State University

Transit Access, Social Equity, and Bus Rapid Transit in New York City: Fits and Starts to a New Future
Jonathan Peters, City University of New York
Michael Kress, City University of New York

5:30 p.m.–6:45 p.m., Third-Floor Atrium
Posters and Reception

Projecting the County-Level Vehicle Miles of Travel by Using the Age-Sex-Race and Ethnicity-Specific Travel Measures: The Case of Southern California
Simon Choi, Southern California Association of Governments

Medicaid Transportation Needs for Changing Demographics
Paul Hanley, University of Iowa

Individual Mobility in Aging Germany: Are Women Taking the Fast Lane?
Dominika Kalinowska, German Institute for Economic Research, DIW Berlin

Teen Mobility: Patterns in Teen Travel Behavior
Reihane Marzoughi, University of Toronto

A Longitudinal Analysis of Activity–Travel Patterns of Individuals Without Driver’s Licenses or in Zero-Car Households: Implications for Accessibility and Social Exclusion
Ram Pendyala, Arizona State University

The Other Cyclists: U.S. Immigrants and Cycling
Michael Smart, University of California, Los Angeles

Will Generation Y Use Transit?
Alexander Bond, Center for Urban Transportation Research, University of South Florida; and Ruth L. Steiner, Department of Urban and Regional Planning, University of Florida

The Golden Years of Walking: How Baby Boomers Are Creating an Induced Demand for Active Infrastructure in America
Shaunna Burbidge, Brigham Young University

Sociodemographic Changes and Their Mobility Implications: Insights from the Netherlands
Lucas Harms, Netherlands Institute for Transport Policy Analysis

Impacts of Demographics on Future Travel Demand
Steven E. Polzin, University of South Florida
Future Scenarios for Today's Policy and Transportation Investment Decisions
David Kuehn, FHWA

A Case Study of Ten Driver-Education Instructors' Perceptions of Culturally Responsive Driver Education and Traffic Safety Curriculum and Its Impact on Risk Reduction Efforts for Teenagers
Patricia Larke, Texas A&M University

A Seamless Rail Transit System for the Changing Metropolitans
Tom Tsai

The Challenge of Change: Transporting Leaders for the Future
Carla Gary, University of Oregon

The Influence of Hispanic Ethnicity and Immigrant Status on Carpooling in Texas
Michael Cline, University of Texas at San Antonio, Institute for Demographic and Socioeconomic Research

Examining the Impacts of Changing Demographics on the Demand and Safe Mobility of Alaska's Transportation System
Ming Lee, Alaska University Transportation Center

The Impact of Caregiving on Caregiver Travel Habits and Trips
Lisa D'Ambrosio, Massachusetts Institute of Technology AgeLab

Travel and Transportation Impacts of Urban Gentrification
Emily Kushto, Northwestern University

5:30 p.m.–6:00 p.m., Room 110
Discussion Group Leaders meet to review procedures (by invitation)
8:00 a.m.–8:30 a.m., Atrium
Continental Breakfast

8:30 a.m.–10:00 a.m., Room 100
Aging and Demographic Transition
Sandra Rosenbloom, University of Arizona, presiding

**Aging and Demographic Transition Plenary Session:**
**Safe Mobility of Older People**
David Eby, University of Michigan, Transportation Research Institute

**Disruptive Demographics: Anticipating the New Demands of Aging on Tomorrow’s Transportation System**
Joseph F. Coughlin, Massachusetts Institute of Technology

10:00 a.m.–10:30 a.m., Atrium
Break

10:30 a.m.–noon, Room 100
Changing Racial and Ethnic Mix Plenary Session
Steven E. Polzin, University of South Florida, presiding

**Disaggregating Race and Ethnicity: Toward a Better Understanding of the Social Impacts of Transport Decisions**
Beverly Ward, University of South Florida

**Demographics Matter: Travel Demand, Options, and Characteristics Among Minority Populations**
Heather Contrino, Federal Highway Administration

Noon–12:30 p.m.
Pick up lunch in Atrium and go to discussion groups

12:30 p.m.–2:30 p.m.
Identifying Key Research Initiatives Discussion Session

Discussion groups will

- Summarize the state of knowledge;
- Identify key knowledge gaps;
- Determine what specific demographic research can do to inform key future transportation decisions in government and the private sector;
- Prioritize the research identified, in order to develop a research agenda; and
- Identify what research is appropriate in universities and why.
Discussion Group Coleaders

Group 1, Room 105. Evelyn Blumenberg, University of California, Los Angeles, Institute of Transportation Studies; and Elaine Murakami, FHWA

Group 2, Room 109. Lisa M. Molnar, Michigan Center for Advancing Safe Transportation Throughout the Lifespan; and Joseph L. Schofer, Northwestern University

Group 3, Room 110. Beverly Ward, University of South Florida; and Thomas E. Marchessault, U. S. Department of Transportation, retired

Group 4, Room 201. Steven E. Polzin, University of South Florida; and Daniel Chatman, Rutgers University

Group 5, Room 100. David Eby, University of Michigan; and Stacey Bricka, NuStats

2:30 p.m.–3:00 p.m., Atrium

Break

3:00 p.m.–4:30 p.m., Room 100

Setting a Research Agenda
Joseph F. Coughlin, presiding
Massachusetts Institute of Technology

Discussion Groups report key research initiatives

Panel of transportation professionals reflect on research priorities:

Julie Cunningham, President, Conference of Minority Transportation Officials
Arnold Konheim, Safety and Health Adviser, Office of the Secretary, U.S. Department of Transportation
Robert E. Griffiths, Technical Services Director, Metropolitan Washington Council of Governments
Karla Karash, Chair of the TRB Public Transportation Group and Vice President, TransSystems Corporation

4:30 p.m.–6:00 p.m., Keck 110

Planning Committee Debrief Meeting (by invitation)
Planning Team

Joseph F. Coughlin, Massachusetts Institute of Technology, Chair
David Eby, University of Michigan
Elinor Ginzler, Association for the Advancement of Retired People
Linda Lawson, U.S. Department of Transportation
John M. Mason, Auburn University
Lisa M. Molnar, Michigan Center for Advancing Safe Transportation Throughout the Lifespan
Vahid Motevalli, George Washington University
Elaine Murakami, Federal Highway Administration
Robert Plymale, Marshall University
Sandra Rosenbloom, University of Arizona
Bruce Simons-Morton, National Institutes of Health
Joseph Sussman, Massachusetts Institute of Technology
Katherine Turnbull, Texas Transportation Institute

Research and Innovative Technology Administration
Thomas Bolle
Robin Kline
Thomas Marchessault, retired
Curtis Tompkins

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Contacts
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or Thomas Palmerlee, tpalmerlee@nas.edu or 202-334-2907.
CALL FOR ABSTRACTS
4th International Conference on Women’s Issues in Transportation

October 27–30, 2009

Hosted by Transportation Research Board
Arnold and Mabel Beckman Conference Center of the National Academies
Irvine, California

Sponsored by TRB’s Women’s Issues in Transportation Committee,
Federal Highway Administration, United Kingdom Department for Transport,
University of California–Berkeley, University of California–Davis,
and University of Southern California

Conference Objectives:

- Enhance and enrich the understanding of gender differences in transportation access, mobility, safety, and personal security needs;
- Increase the dissemination of more insightful information and guidance on developing transportation services and programs that promote equitable and sustainable access and safe mobility; and
- Assess the research developed over the past four decades on women’s transportation issues, make substantial additions to the database, and identify future research needs.

Please visit the TRB website to submit your abstract: