International Conference on Demand Responsive and Innovative Transportation Services

April 15-17, 2019
Baltimore, Maryland

Organized by
Transportation Research Board

Sponsored by
Committee on Paratransit (AP060)
Committee on Emerging and Innovative Public Transport and Technologies (AP020)
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TRB sincerely appreciates and thanks the following organizations for their generous patronage of the DRT Conference:

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BRONZE

- PTV GROUP
- TSS PARATRANSIT
- Ascendal Group
- Routematch
- DemandTrans
Welcome to Baltimore! The place to be to find out how Demand Responsive and Innovative Transportation Services (DRT) are transforming the way people move about in our communities.

Jitney, Dial-a ride, Paratransit and TNC/taxi are all Demand Response Mobility Services at the center of a creative revolution in how we move. Our objective over the next 3 days is to profile:

- Current demand response- systems around the world;
- How the legal and regulatory systems governing transit either help or hinder DRT development;
- Novel ways to connect passengers and transit;
- New mobility providers and systems;
- Transit system partnerships with healthcare providers, and social service agencies to provide Mobility on Demand;
- Accessibility, Equity and Sustainability considerations for inclusive service design and marketing;
- The state of the market in DRT vehicle options;
- Transit Data Metrics and Planning Techniques that support performance management and benchmarking of DRT services;
- Business models and payment strategies that will promote and integrate new mobility services; and
- The progress toward Mobility as a Service integration.

Please take advantage of our setting to connect with your peers to hear about the progress of initiatives in Demand Responsive Transportation Services you can use to benefit your community.

While you are here, take some time to enjoy Baltimore’s Inner Harbor with lots of great places to eat, play and relax.

If you have any questions, please ask any of us any of the conference organizing committee identified by our nametags.
The Transportation Research Board is one of seven major programs of the National Academies of Sciences, Engineering, and Medicine. The mission of the Transportation Research Board is to increase the benefits that transportation contributes to society by providing leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal. The Board’s varied committees, task forces, and panels annually engage about 7,000 engineers, scientists, and other transportation researchers and practitioners from the public and private sectors and academia, all of whom contribute their expertise in the public interest. The program is supported by state transportation departments, federal agencies including the component administrations of the U.S. Department of Transportation, and other organizations and individuals interested in the development of transportation.

www.TRB.org
### CONFERENCE AT A GLANCE

#### Sunday, April 14

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#### Monday, April 15

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<td>10:15 a.m. – Noon</td>
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<td>C: International</td>
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<td>F: Data: How and What Should We Measure, and How Can We Improve Performance?</td>
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Exhibit

8:30 a.m. - 9:45 a.m., Chesapeake I&II
Welcome and Open Plenary Session

Conference Welcome
Mark Mindorff, Darts Transit
Co-Chair, Conference Planning Committee

Open Plenary Session
Michelle Pourciau, Director, Department of Transportation, City of Baltimore

9:45 a.m. - 10:15 a.m., Harborview 2
Break

9:45 a.m. - 10:15 a.m., Harborview 2
Exhibit

10:15 a.m. - Noon
Concurrent Sessions

Breakout Session A - Chesapeake III
Profiling Current Demand Responsive Transit Systems
Moderator: Mollie D’Agostino, Policy Institute for Energy, Environment and the Economy, University of California, Davis

Current and Emerging Good Practices in Rural Shared Mobility: European Experiences from the SMART Rural Transport Areas Project (SMARTA)
Giorgio Ambrosino, MemEx Srl

A Door-to-Hub Demand-Responsive Transport Service for Mass Transit
Dean Economou, Liftango

Ridehailing and Public Transportation: Evaluating the Evolution of Partnerships and Pilots
Susan Pike, University of California, Davis

PSTA’s FTA Mobility on Demand Sandbox Pilot: Integrating Cross-Disability Access into DRT App Design & Service Delivery
Ross Silvers, Pinellas Suncoast Transit Authority (PSTA)
Justin Bergener, Goin

Profiling New Technology in Belleville Transit on-Demand Night Bus Service
Luke Mellor, Pantonium
Breakout Session B - Harborview 1
Legal and Regulatory
Moderator: Matthew W. Daus, Esq., Transportation Research Center, The City College of NY at The City University of New York

Thinking and Working Outside the Box - New Mobility Initiatives Require Legal & Regulatory Reform
Steve Yaffe, Yaffe Mobility Consulting

Developing a Demand Responsive Transportation Data and Privacy Regulatory Framework
Matthew W. Daus, Esq., Transportation Research Center, The City College of NY at The City University of New York

TNC Accessibility for Persons with Disabilities
Erin McAuliff, San Francisco Municipal Transportation Agency

Overview and Analysis of Policy and Frameworks Within which Rural Shared Mobility is Provided in Europe – Findings of the SMART Rural Transport Areas Project (SMARTA)
Brendan Finn, ETTS, Ltd.

Noon - 1:30 p.m., Chesapeake I&II
Lunch with Speaker

Vincent Valdes, Associate Administrator for Research, Demonstration and Innovation, FTA

1:30 p.m. - 3:15 p.m.
Concurrent Sessions Continue

Breakout Session C - Chesapeake III
International
Moderator: Prachi Vakharia, Steer

Demand-Responsive Transport and Informality: Opportunities and Limits of Formalization
Arnd Bätzner, Mobility CarSharing

Inclusive Shared Mobility
Mitch LaRosa, Shared Mobility Inc.

Transport Equity impacts of DRT in Peri-Urban Environments
Ben Kaufman, Griffith University Cities Research Institute

Transportation and Community Mobility for Individuals with Developmental Disabilities
Beth Pfeiffer, Temple University

Let's Talk About the Daily Commute
Tom Williams, Ascendal Group, LLC

Breakout Session D - Harborview 1
Connecting DR Passengers
Moderator: Marlene Connor, Marlene Connor Associates

Older Drivers and Transportation Network Companies: Investigating Opportunities for Increased Safety and Improved Mobility
Melissa Tooley, Texas A&M Transportation Institute

Community Readiness for Crowding Sourcing - Evaluating and Innovating
Sherry Welsh, 3P Ride, Inc., Central Pennsylvania Transportation Authority

Including Flexible DRT Services in OpenTripPlanner and 1-Click via GTFS Flex
Paul Sorensen, Cambridge Systematicse
Assessing Impacts on Operations and Customers of Ride-Hailing and Optimization Applications to DRT Service
Randall Farwell, Tindale Oliver

3:15 p.m. - 3:30 p.m., Harborview 2
Break

3:00 p.m. - 3:30 p.m., Harborview 2
Exhibit

3:30 p.m. - 5:00 p.m.
Concurrent Sessions Continue

Breakout Session E - Chesapeake III
The Rules for Deploying DRT Systems
Moderator: Arjan van Andel, PTV Group

Service Design for Mobility Providers: Getting Shared Services Right Before Launch (Chicago Case Study)
Mike Cottle, Bestmile

Evolving Transit Planning Methodologies to Incorporate Alternative Service Delivery Options
Jessica Alvarez, Foursquare Integrated Transportation Planning

GIS Approach to Identify the Potential Service Areas and Feasibility for Demand Response Feeder Transit Service: US metropolitan Suburban Areas
Samira Ahangari, Istiak Bhuyan, Young-Jae Lee; Morgan State University

Working Out Where to Pilot on Demand Flexible Services in Metro Vancouver
Niklas Kviselius, Translink
Dennis Fletcher, Steer

Portland Study: OnDemand+ MaxService to Reduce Congestion and Equitable on Demand Service
Arjan van Andel, PTV Group

Breakout Session F - Harborview 1
Data: How and What Should We Measure, and How Can We Improve Performance?
Moderator: Lindsey Morse, Railway and Transport Strategy Centre, Imperial College London

New Paradigms in DRT/ Shared Mobility-on-Demand (MOD) Metrics
Will Rodman, TSS Paratransit

Paratransit Capacity Utilization: Matching Demands on Space with Vehicle Mix – Insights from the American Bus Benchmarking Group
Lindsey Morse, Railway and Transport Strategy Centre, Imperial College London

Statewide Paratransit Scheduling and Dispatch Software Deployment
John Taylor, Pennsylvania Department of Transportation

Operational Impacts and Assessing Lifecycle Costs of Open Source RidePilot DRT Scheduling Software
Paul Sorensen, Cambridge Systematics
Clint Wilkinson, Utah Transit Authority
Ryan Taylor, Utah Transportation Authority
Mode Choices with Time Reliability Considerations  
Ricardo Daziano, Cornell University

Taxi and For Hire Vehicle Services and Linkages to Illicit Activities  
Jonathan Peters, The City University of New York

Sources of Variability in Operations and Costs of Demand Responsive Transit Systems  
Charalampos Sipetas, University of Massachusetts Amherst

Greater Minnesota Five-Year Transit System Plans  
Lee Nichols, WSB & Associates, Inc.

Charging Fleets of Shared Electric Ride Vehicles with Renewables and the Grid in San Francisco: Developing a Smart EV Routing System, a Smart Charging Algorithm, and Estimating Their Economic Feasibility  
Stefania Mitova, University of Colorado Boulder

Using Technology to Enhance the Coordination of Transit and DR Services in Multi-Agency Regions: Planning a Travel Management Coordination Center (TMCC) and Related Challenges  
Brendon Hemily, Hemily and Associates

Rural Mobility as a Service (Maas) in Finland  
Eric Bruun, Kyyti Group
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7:30 a.m. - 8:30 a.m., Harborview 2
Exhibit

8:30 a.m. - 10:15 a.m.
Concurrent Sessions

Breakout Session G - Chesapeake III
Researching Service Delivery Models
Moderator: Jean Ruestman, Michigan Department of Transportation

Dynamic Bus Routing: The Role of High-capacity on Demand Ridesharing in a Population-dense Urban Environment
Kenneth Koh, Land Transport Authority

Negotiating Transit-TNC Partnerships that Work
Dan Berez, Nelson\Nygaard

Flex Danmark
Jana Lynott, AARP

The Impact of Analytical Reports on Paratransit Service Planning
Will Rodman, TSS Paratransit

Breakout Session H - Harborview 1
Vehicles
Moderator: Steve Yaffe, Yaffe Mobility Consulting

Embedding Principles into the Automated Vehicle Revolution
Sheryl Gross-Glaser, Community Transportation Association of America

Optimizing Electric Fleet Operations Serving Demand-responsive Mobility in an Automated Mobility District
Venu Garikapati, National Renewable Energy Lab

Miami-Dade TPO SMART Demonstration Projects: On-Demand Responsive Services
Lisa Colmenares, Miami-Dade Transportation Planning Organization

The Optimization of Publicly Regulated e-Hailing Complementary ADA Paratransit: Lessons from Six U.S. Transit Programs
Jamaal Schoby, Texas Southern University

Transportation Network Companies Used as a Part of Basic Mobility in Transit
Todd Hansen, Texas A&M Transportation Institute

10:15 a.m. - 10:30 a.m., Harborview 2
Break

10:15 a.m. - 10:30 a.m., Harborview 2
Exhibit
10:30 a.m. - Noon, Chesapeake I&II
Plenary Session
Integrated Mobility Innovation: Realizing Complete Trips for All
Moderator: Federal Transit Administration

An Introduction to FTA's Integrated Mobility Innovation Program
Rik Opstelten, FTA Office of Mobility Innovation

The Evolution from Mass Transit to Mobility Integration: What the Trends Tell Us
Mary Leary, FTA Office of Research, Demonstration and Innovation

Challenges at the Cutting Edge: Lessons Learned in the MOD Sandbox
Ross Silvers, Pinellas Suncoast Transit Authority (PSTA)

Noon - 1:30 p.m., Chesapeake I&II
Lunch with Speaker

Neil Pedersen, Executive Director, Transportation Research Board

1:30 p.m. - 3:00 p.m., Chesapeake I&II
Plenary Session
Mobility as a Service Becoming a Reality in the US: Needs and Opportunities
Moderator: Rich Farr, rabbittransit

The Current and Potential Future State of MaaS in the U.S.
Carol Schweiger, Schweiger Consulting LLC

How to Develop the Thinking/Models, Curriculum and Outreach Efforts to Support MaaS
Kevin Chambers, Full Path

Mobility Marketplace Project
Robert Sheehan, Federal Highway Administration

What is the Bigger Picture for MaaS in The U.S.?
Dwight Mengel, Tompkins County Department of Social Services

3:00 p.m. - 3:30 p.m., Harborview 2
Break

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Exhibit

3:30 p.m. - 5:00 p.m.
Concurrent Sessions Continue

Breakout Session I - Chesapeake III
Managing DR Systems
Moderator: Eric Bruun, Kyyti Group

How Government Agencies Can Better Manage and Promote Shared Mobility
Andrei Greenawalt, Via

Providing Mobility as a Service in San Joaquin Regional Transportation District
Kelly Coughlin-Tran, Ecolane DRT

Demand Responsive Public Transportation Services in Canada: An Overview
Brendon Hemily, Hemily and Associates
Comparison Between Demand Responsive Feeder Transit Services with Door-to-Door and with Temporary Stops
Amirreza Nickkar, Morgan State University
Young-Jae Lee, Morgan State University

How Effective Data Analysis and Technology can Promote Mobility, a Reduction in Paratransit Cost, and Rider Transformation
Pepper Haward, Routematch

Breakout Session J - Harborview 1
The Challenges of Delivering DRT Service: Experiences and Learnings
Moderator: Arnd Bätzner, Mobility CarSharing

Challenges of Delivering Demand-Responsive Service in an Urban Environment
Jonathan Cheng, San Francisco Municipal Transportation Agency

Delivering New and Innovative Mobility for Everyone
Adam Leishman, Ascendal Group, LLC

Transportation Network Companies (TNCs) and Demand Responsive Transit (DRT)
Chris Pangilinan, Uber Technologies Inc.

The Challenges of Seamlessly Integrating Demand Responsive Transportation with Public Transport Services and Authorities
Alice Etropolszky, door2door
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8:30 a.m. - 10:00 a.m., Chesapeake I&II
Plenary Session: Key Conference Findings

- Profiling Current Demand Responsive Transit Systems
  Mollie D’Agostino, Policy Institute for Energy, Environment and the Economy, University of California, Davis

- Legal and Regulatory
  Matthew W. Daus, Esq., Transportation Research Center, The City College of NY at The City University of New York

- International
  Prachi Vakharia, Steer

- The Rules for Deploying DRT Systems
  Arjan van Andel, PTV Group

- Connecting DR Passengers
  Marlene Connor, Marlene Connor Associates

- Data: How and What Should We Measure, and How Can We Improve Performance?
  Lindsey Morse, Railway and Transport Strategy Centre, Imperial College London

- Researching Service Delivery Models
  Jean Ruestman, Michigan Department of Transportation

- Vehicles
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Conference Wrap-Up & Adjourn

Mark Mindorff, Darts Transit
Co-Chair, Conference Planning Committee

1:00 p.m. - 3:00 p.m., Chesapeake I&II
Stakeholder Engagement Session
NCHRP 20-102(11) Task Order: Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment
Booz Allen Hamilton
UC Berkeley’s Transportation Sustainability Research Center (TSRC)

The goals of the session would include:
1. Presenting findings from the state-of-the-art assessment to the stakeholder community
2. Presenting the final impact assessment framework, which entails our structure for assessing the impacts of MOD and ADS deployments and demonstrations; and
3. Drafting/Reviewing use case scenarios which outline the circumstances of public agency engagement with specific MOD operators. These draft use cases will support the subsequent stages of the project.
Mobility service providers around the world use Bestmile’s software platform to transform connected vehicles of any brand or type into intelligent fleets capable of delivering differentiated, ultra-efficient on-demand and fixed-route services with predictable performance.

MEET US AT DRTS BREAKOUT SESSION E
THE RULES FOR DEPLOYING DRT SYSTEMS
APRIL 15 AT 15:30

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A transportation research center in Baltimore, Maryland, the National Transportation Center is also home to the Urban Mobility & Equity Center, a federally funded Tier 1 University Transportation Center.

The NTC has two state-of-the-art driving simulators.

$4.2 million in recent grants

www.morgan.edu/soe/ntc

www.morgan.edu/UMEC

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More than 50 cities around the world are embracing the shared ride revolution with Via

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Arlington, TX

Coffs Harbour, Australia

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PTV Vision. Multiresolution multimodal solutions.

Find out more at https://ptvtraffic.us/
DemandTrans has unmatched experience and knowledge in designing and implementing technology-enabled solutions for general public on-demand, flexible transportation services. DemandTrans’ MobilityDR technology platform enables public transportation systems to provide multiple forms of on-demand, flexible transit services both for first mile/last mile connectivity to fixed route rail and bus services and for local community circulation. Used since 2010 by the largest general public DRT program in the country in Denver and in other metropolitan areas including Chicago and Los Angeles, MobilityDR is also integrated with the Kyyti MaaS platform to provide a seamless set of mobility options encompassing all forms of public transportation in a city and region.