

International Conference on Demand Responsive and Innovative Transportation Services

*April 15-17, 2019
Baltimore, Maryland*

Organized by
Transportation Research Board

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Committee on Paratransit (AP060)
Committee on Emerging and Innovative Public Transport and Technologies (AP020)



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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.



Mark Mindorff, Darts Transit
Conference Planning Co-chair



Steve Yaffe, Yaffe Mobility Consulting
Conference Planning Co-chair

CONFERENCE PLANNING COMMITTEE

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CONFERENCE AT A GLANCE

Sunday, April 14		
3:00 p.m. – 5:00 p.m.	Registration	<i>Chesapeake Gallery</i>
Monday, April 15		
7:00 a.m. – 5:00 p.m.	Registration	<i>Chesapeake Gallery</i>
7:30 a.m. – 8:30 a.m.	Continental Breakfast	<i>Harborview 2</i>
8:30 a.m. – 6:30 p.m.	Exhibit	<i>Harborview 2</i>
8:30 a.m. – 9:45 a.m.	Welcome & Open Plenary Session	<i>Chesapeake I&II</i>
9:45 a.m. – 10:15 a.m.	Break	<i>Harborview 2</i>
10:15 a.m. – Noon	Concurrent Sessions: A, B	
	A: Profiling Current Demand Responsive Transit Systems	<i>Chesapeake III</i>
	B: Legal and Regulatory	<i>Harborview 1</i>
Noon – 1:30 p.m.	Lunch	<i>Chesapeake I&II</i>
1:30 p.m. – 3:00 p.m.	Concurrent Sessions: C, D	
	C: International	<i>Chesapeake III</i>
	D: Connecting DR Passengers	<i>Harborview 1</i>
3:00 p.m. – 3:30 p.m.	Break	<i>Harborview 2</i>
3:30 p.m. – 5:00 p.m.	Concurrent Sessions: E, F	
	E: The Rules for Deploying DRT Systems	<i>Chesapeake III</i>
	F: Data: How and What Should We Measure, and How Can We Improve Performance?	<i>Harborview 1</i>
5:00 p.m. – 6:30 p.m.	Welcome Reception/ Poster Session/Exhibits	<i>Harborview 1 & 2</i>
Tuesday, April 16		
7:30 a.m. – 5:00 p.m.	Registration	<i>Chesapeake Gallery</i>
7:30 a.m. – 8:30 a.m.	Continental Breakfast	<i>Harborview 2</i>
8:30 a.m. – 5:00 .m.	Exhibit	<i>Harborview 2</i>
8:30 a.m. – 10:15 a.m.	Concurrent Sessions: G, H	
	G: Researching Service Delivery Models	<i>Chesapeake III</i>
	H: Vehicles	<i>Harborview 1</i>
10:15 a.m. – 10:30 a.m.	Break	<i>Harborview 2</i>
10:30 a.m. – Noon	Plenary Session	<i>Chesapeake I&II</i>
Noon – 1:30 p.m.	Lunch with Speaker	<i>Chesapeake I&II</i>

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3:00 p.m. – 3:30 p.m.	Break	<i>Harborview 2</i>
3:30 p.m. – 5:00 p.m.	Concurrent Sessions: I, J	
	I: Managing DR Systems	<i>Chesapeake III</i>
	J: The Challenges of Delivering DRT Service: Experiences and Learnings	<i>Harborview 1</i>
Wednesday, April 17		
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10:30 a.m. – Noon	Conference Wrap-Up	<i>Chesapeake I&II</i>
Noon	Adjourn	
1:00 p.m. – 3:00 p.m.	Stakeholder Engagement Session <ul style="list-style-type: none"> NCHRP 20-102(11) Task Order: Mobility-on-Demand and Automated Driving Systems: A Framework for Public-Sector Assessment 	<i>Chesapeake I&II</i>

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Continental Breakfast

8:30 a.m. - 8:30 a.m., *Harborview 2*
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 Anandel, 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 Anandel, *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*

5:00 p.m. - 6:30 p.m., Harborview 1 & 2
Welcome Reception/Poster Session/Exhibits

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*

Tuesday, April 16

7:30 a.m. - 5:00 p.m., Chesapeake Gallery
Registration

7:30 a.m. - 8:30 a.m., Harborview 2
Continental Breakfast

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

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

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*

Wednesday, April 17

8:00 a.m. - 11:00 a.m., Chesapeake Gallery
Registration

8:30 a.m. - 8:30 a.m., Harborview 2
Continental Breakfast

8:00 a.m. - 11:00 a.m., Harborview 2
Exhibit

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**
Steve Yaffe, *Yaffe Mobility Consulting*
- **Managing DR Systems**
Eric Bruun, *Kyyti Group*
- **The Challenges of Delivering DRT Service: Experiences and Learnings**
Arnd Bätzner, *Mobility CarSharing*

10:00 a.m. - 10:30 a.m., Harborview 2
Break

10:30 a.m. - Noon, Chesapeake I&II
Conference Wrap-Up & Adjourn

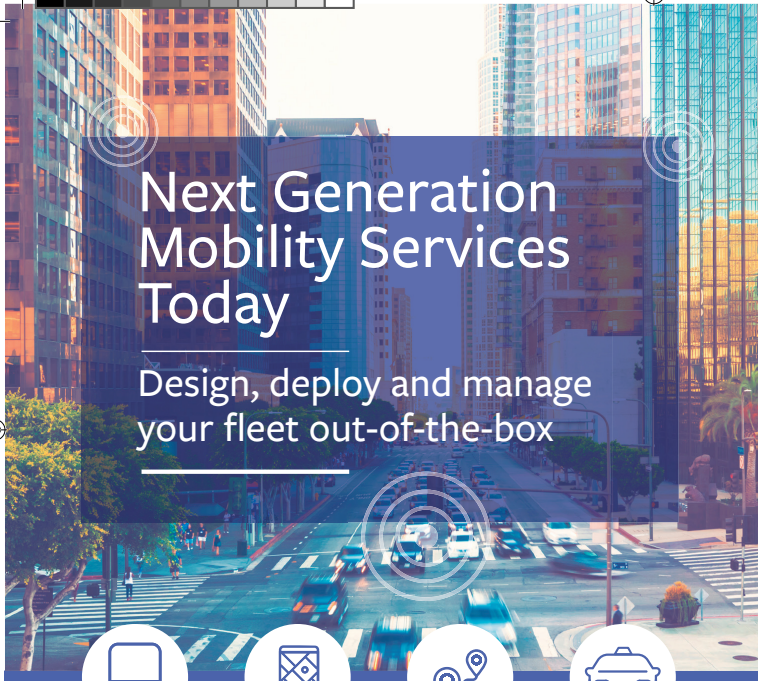
Mark Mindorff, *Darts Transit*
Co-Chair, Conference Planning Committee

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.



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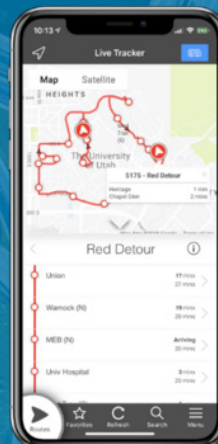


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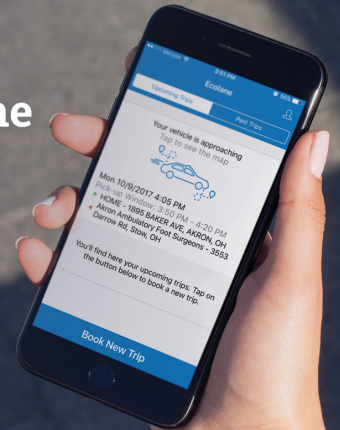
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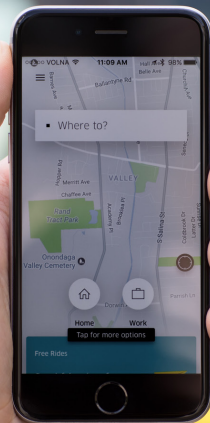
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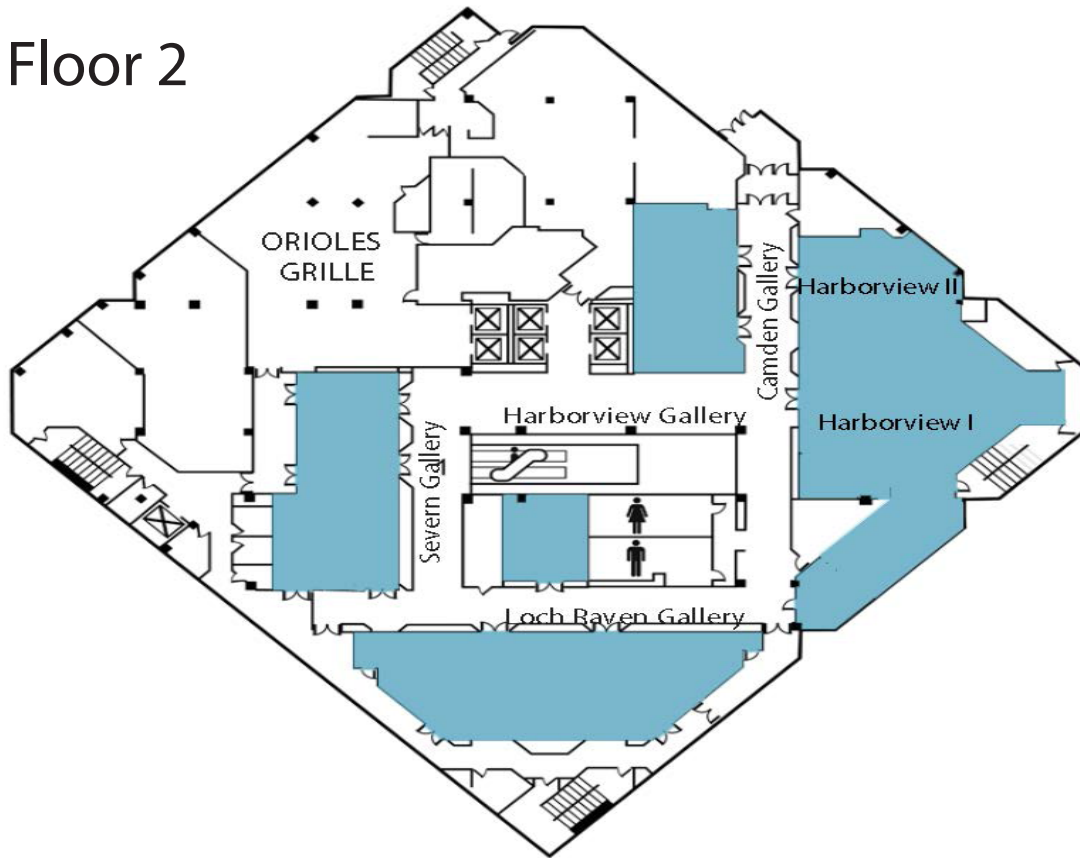


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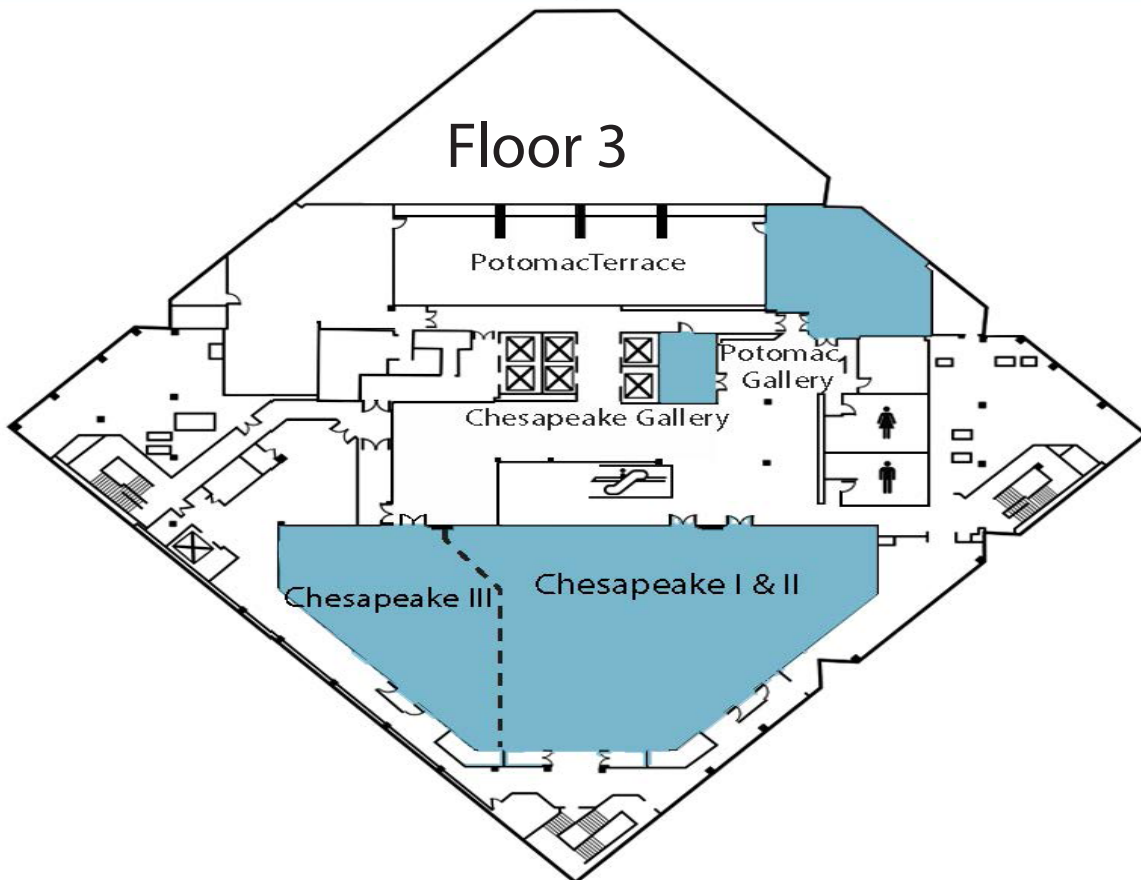
DemandTrans has unmatched experience and knowledge in designing and implementing technology-enabled solutions for general public on-demand, flexible transportation services. DemandTrans' **MobilityDR** technology platform enables public transportation systems to provide multiple forms of on-demand, flexible 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.

HOTEL FLOOR PLAN

Floor 2



Floor 3



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