



# CAPITAL CONVERGENCE 2017

January 26, 2017

Walter E. Washington  
Convention Center



# Eno

Center for  
Transportation





To learn more about Eno's Digital Cities Initiative, visit  
**[www.enotrans.org/projects/digital-cities](http://www.enotrans.org/projects/digital-cities)**

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## ABOUT THE ENO CENTER FOR TRANSPORTATION

The Eno Center for Transportation is an independent, non-profit transportation think-tank based in Washington, DC. Eno focuses on all modes of transportation, with the mission of cultivating creative leadership and impacting emerging issues for the nation's multi-modal transportation system.

Through intensive policy research, in depth analysis and coverage of transportation policy at all levels of government, and leadership development, Eno is pursuing its vision of an American transportation system that fosters economic vitality and improves the quality of life for all.



# WELCOME LETTER

This year, Washington, DC's image took a political hit in the national debate as a "swamp that needs draining." For years it has also famously suffered from bleak news surrounding its transportation network.

The problems are well known: traffic congestion here is often ranked as one of the worst, if not the worst, in the country. A recent streetcar project that faced intense scrutiny, delay, budget overruns, and criticism for years opened earlier this spring to lukewarm reviews. Week after week a steady stream of delays and closures on the subway system continue, and there is an ongoing crisis of lower and mid-skilled workers being increasingly disconnected from access to jobs in the region.

Each of these seemingly intractable transportation issues present major challenges for the National Capital Region and the need to deal with them is unquestionable.

But here's something you may not know: the region is doing as much—if not more—than any other region in the country when it comes to implementing innovative transportation technologies, practices, and policies.

Today, growing wireless network availability, an ever-expanding array of mobile applications, and societal and demographic changes have created an environment in which information systems, shared vehicles, and on-demand services play an increasing role in metropolitan transportation. Nowhere is that more evident than in metropolitan Washington.

## **For example:**

- Smartest Lanes in the Country - Virginia's I-495 and I-95 express toll roads are some of the smartest in country with



thousands of sensors and cameras. Its all-electronic dynamic tolling is based on real-time traffic conditions, and free for carpools and transit buses.

- **Self-Driving Vehicle Testing** - The first 3D-printed self-driving vehicle, Olli, was piloted in Prince George's County, Maryland. The vehicle is equipped with IBM's super computer, Watson (formerly of Jeopardy-fame), to operate on private roads around National Harbor. The District of Columbia passed one of the first laws back in 2013 regulating autonomous vehicles.
- **Parking Innovations** - The District is also piloting dynamic pricing for parking to maximize efficiency by making it easier for people to find spots, thereby preventing congestion caused by people circling to find parking. This is being tested in downtown Chinatown/Penn Quarter area now.
- **Robotic Freight Delivery** - Starship Technologies is working with the D.C. City Council to deploy sidewalk robots to deliver packages, groceries, and food deliveries within city limits. The service actually delivered a piece of legislation (on behalf of Ward 3 Councilwoman Mary Cheh) to the council secretary last March.
- **Shared Economy** - A plethora of ride sourcing companies like Uber, Lyft, and Via along with carsharing companies like Zipcar & Car2Go provide important mobility services throughout metropolitan Washington. The region also has the first and oldest bikeshare system in the country serving areas that are not easily served by traditional transit.
- **Tech Enabled Transit** - Across the country, transit agencies are seeing the value of working with private sector transportation companies to help supplement and compliment their own services. The Washington Metropolitan Area Transit Authority is taking next steps to enter into partnerships with ridesharing companies and private

paratransit providers to help augment their service. The agency recently released a proposal to partner with app-based ride-hailing services with potentially significant cost savings.

While a number of these resources and applications are being implemented in other parts of the country, no other place has brought together all of these innovations like the National Capital Region.

This is why Eno chose to focus Capital Convergence on the existing projects and pilots here, along with other examples from around the country. From coast-to-coast we know public and private leaders are looking for these kinds of real-world lessons so they can scale and replicate ideas and best practices and tailor innovations to their own needs. That's precisely what we intend to highlight at this conference.

Eno is also working to understand how these innovations can be broadly shared. As interesting as these projects are, many of these things rarely benefit low-income neighborhoods. The next step is to identify what purpose all of these transportation innovations serve and then to make sure their benefits are felt by everyone.



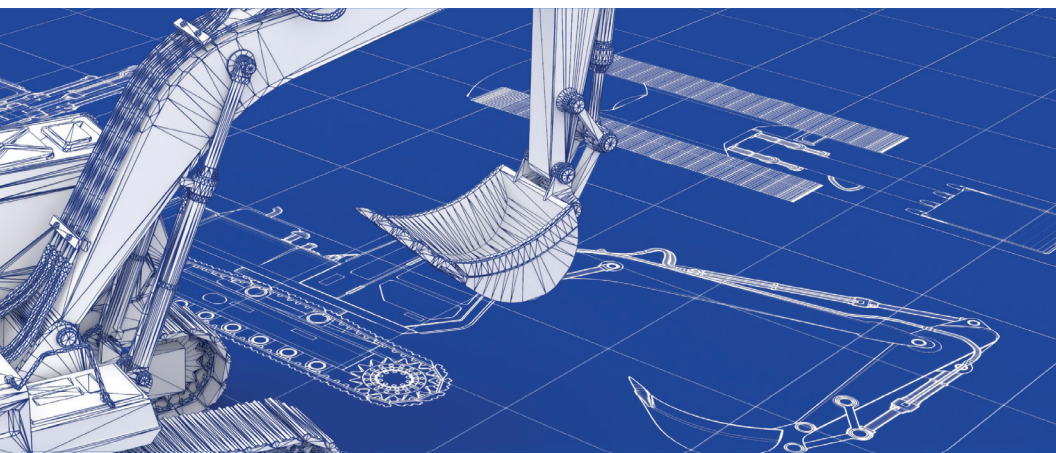
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# AGENDA AT A GLANCE

8:00am - 9:00am

Breakfast & Registration

9:00am - 9:15am

Opening Remarks

9:15am - 10:30am

SESSION 1: Technology &  
Freight Delivery Showcase

SESSION 2: Autonomous  
Vehicles: What We Have  
Learned from Pilot Programs  
& Recent NHTSA Guidelines

10:30am - 11:00am

Networking Coffee Break

11:00am - 12:15pm

SESSION 3: Innovative  
Partnerships: Enhancing  
Service While Addressing  
Procurement Obstacles

SESSION 4: The New Built  
Environment: Adapting Our  
Infrastructure in the Age of  
Innovation

12:15pm - 1:45pm

KEYNOTE: Allie Kelly and  
Harriet Anderson Langford,  
The Ray



1:45pm - 3:00pm

SESSION 6: The Aftermath:  
How USDOT's Smart Cities  
Challenge Applicants Are  
Implementing Their Plans

1:45pm - 3:00pm

SESSION 7:  
Car Talk: Connected Vehicle  
Policy and Deployment Across  
the Country

3:00pm - 3:30pm

Networking Coffee Break

3:30pm - 4:45pm

SESSION 8: Taking it to the  
Streets: Creating the  
Strategies to bring an AV  
Shuttle to the Region

4:45pm - 4:50pm

Closing Remarks

5:00pm - 6:00pm

Reception

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# SESSIONS AND SPEAKERS

## OPENING REMARKS:

**James Burnley, Former Secretary of Transportation, Board Chair, Eno Center for Transportation**

**Robert Puentes, President and CEO, Eno Center for Transportation**

Twitter: @rpuentes, @EnoTrans

## SESSION 1:

### **Technology and Freight Delivery Showcase**

*Technology continues to improve the shipment of goods. The largest area of improvement has been the direct-to-consumer model. This session will feature live demonstrations of new technologies that are attempting to transform freight. Following the demonstration, this panel will explore the policy implications of these services, and what can be done to continue to encourage their effective and responsible deployment.*

**Geoffrey Milsom, Director, Transportation Solutions, Envista**

Twitter: @geoffreymilsom, @enVistaSppllyChn

**Steve Boyd, Founder and Vice-President, External Affairs, Peloton**

Twitter: @PelotonTech

**David Catania, Starship Technologies**

Twitter: @StarshipRobots

**Chase Murray, Assistant Professor, Industrial & Systems Engineering, University of Buffalo**

Twitter: @UBuffalo, @chase\_c\_murray

## SESSION 2:

### **Autonomous Vehicles: What We Have Learned from Pilot Programs and Recent NHTSA Guidelines**

*As autonomous vehicles now share public roads with cars, we are beyond speculation. This session will focus on the implications of the recent federal AV guidelines and how cities and states can*

*enact smart policies and regulations that can be employed today for an unknown future.*

**David Strickland, Venable LLP, Counsel and Spokesperson for the Self-Driving Coalition for Safer Streets**

Twitter: @selfdrivingsafe

**Ronique Day, Assistant Secretary, Office of the Virginia Secretary of Transportation**

Twitter: @GovernorVA, @VaDOT

**Nathanial Beuse, Associate Administrator, Vehicle Safety Research, NHTSA, U.S. Department of Transportation**

Twitter: @NHTSAgov

**David Somo, Senior Vice President, Corporate Strategy and Marketing, ON Semiconductor**

Twitter: @onsemi

### **SESSION 3:**

#### **Innovative Partnerships: Enhancing Service While Addressing Procurement Obstacles**

*This panel will explore how agencies across the country have partnered with private-sector transportation network companies (TNC's) to provide enhanced last-mile connections, paratransit services, and other services. This discussion will focus on a variety of innovative partnerships, while exploring the legal and regulatory barriers around procurement and potential reform. It will also highlight the policy implications that these relationships have on transportation equity.*

**Adie Tomer, Fellow, Metropolitan Policy Program, Brookings**

Twitter: @AdieTomer, @BrookingsMetro

**Christiaan Blake, Director, Office of ADA Policy and Planning, Washington Metropolitan Area Transit Authority**

Twitter: @wmata

**Jameson Auten, Chief, Regional Service Delivery and Innovation Division, Kansas City Area Transportation Authority**

Twitter: @RideKCTransit



**Paige Tsai, Transportation Policy and Research, Uber**

Twitter: @Uber

#### **SESSION 4:**

#### **The New Built Environment: Adapting Our Infrastructure in the Age of Innovation**

*The importance of infrastructure as a national issue has gained notoriety in recent years. Some of the most innovative projects in transportation are happening in the Washington DC region. This panel will examine the Maryland I-270 innovative congestion management project, the Virginia 495 and 95 dynamic pricing express lanes, the demand parking pilot pioneered by the District of Columbia, and other regional engagements as key examples of how technology can improve environmental effects while enhancing operations and efficiencies with the delivery of transportation services.*

**Martin DiCaro, Transportation Reporter, WAMU 88.5**

Twitter: @MartinDiCaro, @wamu885news

**Jennifer Aument, Group General Manager North America, Transurban**

Twitter: @TransurbanGroup

**Soumya Dey, Associate Director, Transportation Operations and Safety, District of Columbia Department of Transportation**

Twitter: @DDOTDC

**Emeka Moneme, Deputy Executive Director, Federal City Council**

Twitter: @EmekaMoneme, @FedCityCouncil

**Gregory Slater, Deputy Administrator, Planning, Engineering, Real Estate, and Environment, Maryland State Highway Administration, Maryland Department of Transportation**

Twitter: @MDOTNews

#### **SESSION 5: Lunch and Keynote Address**

**Allie Kelly, Executive Director and Harriet Langford, President, The Ray**

Twitter: @RaysLegacy



## **SESSION 6:**

### **The Aftermath: How US DOT's Smart Cities Challenge Applicants Are Implementing their Plans**

*USDOT's \$40 million Smart Cities Challenge was awarded to Columbus, Ohio. But despite not winning, other cities are moving forward with the innovative ideas in their proposals. This session will feature regions that participated in the competition, with a specific focus on the lessons learned from this process and how they are incorporating the broader goals of improved equity and environmental improvement.*

**Russell Brooks, Director, Smart Cities, T4America**

Twitter: @brookssindc, @T4America

**Eric Shaw, Director, District of Columbia Office of Planning**

Twitter: @ericdshaw, @OPinDC

**Bob Bennett, Chief Innovation Officer, City of Kansas City, Missouri**

Twitter: @kc\_cio

**Boris Karsch, Vice President of Strategy, Cubic Transportation Systems**

Twitter: @CubicTS

**Adrian Pearmine, National Director, Smart Cities and Connected Vehicles, DKS Associates**

Twitter: @adrian\_pearmine, @dksassociates

## **SESSION 7:**

### **Car Talk: Connected Vehicle Policy and Deployment Across the Country.**

*The convergence of connected and automated vehicles (CAVs) promises enhanced safety, environmental, and operational benefits to consumers. This session will explore the relationship of autonomous and connected vehicles, the results of recent pilot studies conducted by USDOT on vehicle to vehicle (V2V) and vehicle to infrastructure (V2I). Importantly, the panel will discuss how to standardize and pay for the deployment of the technology.*

**Matthew Hardy, Program Director for Planning and Performance Management, American Association of State Highway & Transportation Officials**

Twitter: @aashtospeaks

**Brian Pickerall, Vice President, Booz Allen Hamilton**

Twitter: @brian\_pickerall, @BoozAllen

**Egan Smith, Managing Director, Intelligent Transportation Systems (ITS) Joint Program Office, U.S. Department of Transportation**

Twitter: @ITSJPODirector

## **SESSION 8:**

### **Taking it to the Streets: Creating the Strategies to bring an AV Shuttle to the Region**

*This session will challenge conference participants to brainstorm strategies needed to bring an automated vehicle shuttle to the region now. Using interactive graphics, participants will bring their collective expertise, experience and entrepreneurial spirit together to sketch policy, planning, communications, funding, finance and engagement strategies for prototyping shuttles and fleets on private and public roads. The session will propose an implementation concept and will delve into the practical regulatory, institutional, and technical challenges of autonomous vehicle deployment in metropolitan Washington.*

**Kelley Coyner, Center for Regional Analysis, Schar School of Policy and Government, George Mason University & MobilityE3**

Twitter: @KelleyCoyner, @ScharSchool

**Lisa Nisenson, Alta Planning and Design and Greater Places**

Twitter: @nisenson, @GreaterPlaces

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# ENO STAFF

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EMILY HAN, Policy Analyst

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ALISHA ROBINSON, Financial Analyst and Office Manager



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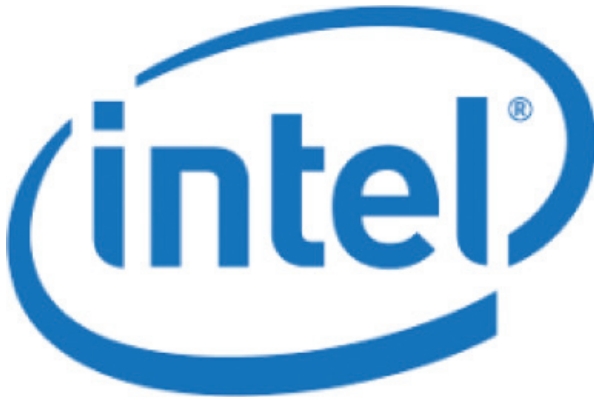
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