The goal of the 2019 Innovations in Freight Data Workshop is to bring together diverse freight data users from across the modal spectrum to share their recent innovative applications of emerging data sources to improve freight planning, freight operations and mobility, and freight visualization, and to discuss their experience in applying these data sources. The specific objectives of the workshop will be to:

- Share the latest applications of emerging data sources and data fusion methods;
- Discuss the application of emerging data sources and methods to meet local, federal, or international freight planning and performance measurement requirements;
- Share freight data tools that are adaptable, flexible, user-friendly, and preserve proprietary data, or that are developed with open source technology; and
- Share experience and best practices for addressing new challenges associated with the use of new and emerging data sources and methods.

**Definition of Emerging Data Sources**

Emerging data sources are potentially common information sources that have not yet been widely applied. Emerging freight data sources include but are not limited to:

- Satellite and aerial images
- Remote sensing data (lidar, radar, infra-red, etc.)
- Location-based data (GPS/Bluetooth)
- Crowdsourced data (smartphone apps)
- Road sensor data (inductive loops, piezo-electric strips)
- Smart vehicle information (containers, RFID, DSRC)
- Connected and automated vehicle (CAV) data
- Transactional data (Bill of Lading, fuel tax revenue, tonnage, value, blockchain)
- Inventory data
- Traffic operations data (affecting freight routes)
- Human factors data affecting freight
- “Open” public records that may provide information relevant to freight activity
- Economic data (employment, wages, sales)
- Effectively integrating commodity flow data for various modes

**Call for Abstracts**

The expected workshop participants are well-respected authorities from both public and private entities involved in the Freight Data industry. These participants engage on emerging trends in data and technology to support safe and reliable operations and economic prosperity, and to communicate useful information on the movement of people and goods across multimodal transportation networks. The planning committee invites practitioners and researchers to submit abstracts for presentation at the annual workshop April 9-10th, 2019. Abstracts should address one or more of the workshop objectives, or otherwise inform practical advances in the use of emerging data sources by freight stakeholders.
The committee is particularly interested in implementations that address common freight data gaps and use challenges; these include but are not limited to:

- **Availability** (data sources, access, cost of investment, procurement, acquisition)
- **Implementation** (utilization of data, information transfer, reporting, visualization)
- **Granularity** (performance, commodity coverage, freight cost data, generator and attractor locations, short-haul and local movements)
- **Linkages** (gaps in domestic movements of international trade, O-D data by commodity and vehicle, whole trip data across modes)
- **Consistency and Quality** (accuracies, data validations, inconsistency in data taxonomy, data collection, data gaps, data synthesis, data quality problems)
- **Technology** (technology deployments, hardware developments, software development, system architecture design, mobile applications)
- **Management** (data processing, data analysis, filtering, cleansing)
- **Communication and Awareness** (data sharing partnerships, communications, outreach improvements, policies and initiatives)

**TRB Freight Event Attendance Assistance Grants**

In order to assist the professional development of young transportation practitioners, the Transportation Research Board is providing registration and travel grants to young researchers from state and local transportation departments and planning organizations. This assistance will be provided to the two authors or co-authors of the abstracts received that best exemplify the workshop objectives. Authors must be 35 or less years old, and the abstracts will be judged through the normal review process of the conference. Each prize will reimburse registration, travel, hotel, and subsistence expenses relative to attendance at the conference. Authors should indicate on their abstracts that they are applying for a grant, and where there are multiple authors, all of them must be aged 35 or less. Winners will be advised in advance of the workshop.

Generous support for these grants is provided by the Alan M. and Natalie P. Voorhees Fund at the Community Foundation of Northern Virginia.

### Submission Process:

All abstracts should be submitted at [https://www.surveymonkey.com/r/2019FreightData](https://www.surveymonkey.com/r/2019FreightData) by **November 1, 2018**.

Abstracts should be no longer than 500 words and should clearly convey the material that will be presented. If an abstract is accepted, you will be informed by late December 2018. All presenters are expected to register and attend the workshop. Authors of any abstract accepted for Poster Session will be required to submit an extended abstract (no more than 1200 words) by **March 25, 2019**.

*If you are 35 years old or younger, you are eligible to apply for Travel Assistant Grant but please complete the survey questions accordingly. No late submission will be considered for a grant.*

Further instructions will be provided if your proposal is accepted.
Direct all questions to Mai Le at 202-334-2827 or [mqle@nas.edu](mailto:mqle@nas.edu).

### Registration

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### Hotel Information

**Hampton Inn**
901 6th Street, NW
Washington, DC 20001

**Contact**
Tom Palmerlee at [TPalmerlee@nas.edu](mailto:TPalmerlee@nas.edu)
Mai Quynh Le at [MQLe@nas.edu](mailto:MQLe@nas.edu)