

# METRANS

Transportation Consortium  
USC | CSULB

**METRANS on the Move:**  
our weekly newsletter written  
and produced by students



## In the News

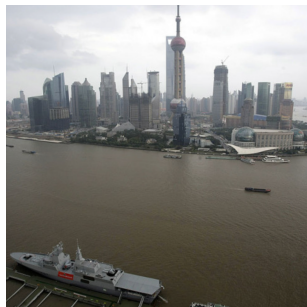
The articles in this newsletter are prepared or accomplished by others in their personal capacity. The opinions expressed are the author's own and do not necessarily reflect the views of METRANS or its partners.



### USC's Jessica Brown wins NCSEA Diversity in Structural Engineering Scholarship

On February 16, 2022, the National Council of Structural Engineers Associations (NCSEA) hosted a ceremony at its annual summit in New York city to celebrate recipients of the organization's award and scholarship recipients. Among those that night was USC civil engineering major and METRANS Mentor Program Lead Jessica Brown, who received one of the NCSEA's Diversity in Structural Engineering scholarships.

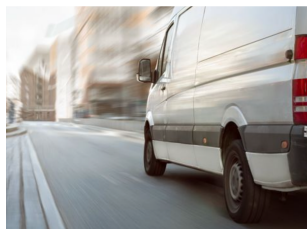
Read more [here](#).



### Supply Chain Latest: Shanghai Lockdowns Slow World's Largest Port, Labor Disputes at California Ports

Markets were braced for prolonged supply chain issues through 2022, but recently there were some reasons for optimism. Some experts think that was just a temporary reprieve, though, as strict COVID lockdowns in Shanghai and the looming threat of West Coast port workers going on strike could once again snarl ocean shipping.

Read the pm Magazine feature [here](#).



### Pittsburgh 'smart loading zones' aim to reduce curbside delivery woes

For well over a decade, massive growth in home and commercial delivery has driven congestion on urban streets and increased air pollution from heightened vehicle emissions. It's also created safety hazards, especially for delivery drivers.

Read the SMARTCITIESDIVE feature [here](#).



## US Transportation sector could cut carbon emissions 34% by 2030: analysis

Cities, states and businesses continue to show leadership in reducing carbon emissions, said Hultman, giving him hope that the 2030 climate goals can be met.

Read the SMARTCITIESDIVE feature [here](#).

## Webinars & Online Events

### Webinar: Reducing Emissions, Improving Fuel Efficiency with In-Wheel Motor Electrification

Wednesday, April 27th at 10:30 am PDT, hosted by MMTT

The race to decrease emissions from Transportation Refrigeration Units (TRUs) poses a major hurdle to heavy-duty fleets. In-wheel motor electrification presents a unique opportunity to decarbonize refrigerated transportation, creating a zero-emission TRU and saving fuel on the main tractor with decentralized propulsion.

[More Info](#)

### Webinar: Creative placemaking techniques to advance traffic safety

Wednesday, April 27th at 2:30 pm PDT, hosted by CSCRS

Advancing safety requires us to not only enhance our planning and design processes, but to establish local cultural and belief systems that value, prioritize, and advocate for traffic safety. This session highlights an effort to link creative placemaking techniques with traffic safety.

[More Info](#)

### Webinar: Air Quality Impacts of the Proposed Expansion of Oregon's Clean Fuels Program

Thursday, April 28th at 11:00 am PDT, hosted by UC Davis

As part of a state-wide effort to reduce carbon emissions, the Oregon Department of Environmental Quality is considering an expansion of the state's Clean Fuels Program (CFP). Adopted in 2015, the CFP sets a state-wide target for the average amount of carbon intensity (carbon emissions per unit) for transportation fuels. This target declines over time, and creates an incentive for fuel suppliers to bring cleaner, renewable fuels, like electricity, biodiesel, renewable natural gas, or ethanol, to the Oregon market. In addition to being lower-carbon emissions, these fuels also typically reduce emissions of other air pollutants, like particulate matter, and chemicals that contribute to the formation of Ozone or smog.

[More Info](#)

### Webinar: Is Sharing Caring? Understanding Shared Mobility Impacts

Friday, April 29th at 9:00 am PDT, hosted by ITS-Irvine

Shared mobility—the shared use of a vehicle, bicycle, or other mode—is an innovative transportation strategy that enables users to gain short-term access to transportation modes on an “as-needed” basis. It includes various forms of carsharing, bikesharing, ridesharing, on-demand ride services, and microtransit. Also part of this ecosystem are smartphone “apps” that aggregate and optimize these mobility options, as well as “courier network services” that are seeking to disrupt the package and food delivery industry. This presentation explores the different models that have emerged in the shared mobility space and reviews research that has quantified the environmental, social, and transportation-related impacts of these services.

[More Info](#)

### E-commerce, Equity, and Accessibility: Case studies from Portland, OR

Friday, April 29th at 1:40 pm PDT, hosted by ITS-UC Davis

The onset of the COVID-19 pandemic has accelerated the growth of e-commerce home deliveries. E-commerce and home deliveries have changed from being a desirable luxury or comfortable solution to an

essential service for many populations. However, not all households are equal in terms of access to e-commerce or home deliveries. This presentation examines the results of models related to home deliveries during COVID restrictions, access to parcel lockers, and essential services in Portland, Oregon. Equity metrics related to e-commerce and home deliveries are discussed as well as the concept of home-based accessibility.

[More Info](#)

---

### **Bike Maintenance: Fix-A-Flat - In-Person Class**

**Saturday, April 30th at 10:30 am PDT, hosted by Metro Bicycle Education Safety Training Program**

Do you want to learn bike maintenance basics and how to repair a flat tire to ensure a smooth and safe ride? The BEST Bike Maintenance: Fix-A-Flat class, presented by Metro and People for Mobility Justice is an in-person class that will provide an overview of basic bike maintenance and how to make tire repairs on your own. You are encouraged to bring your bike for specific questions. Participants will receive a FREE helmet and a set of bike lights!

[More Info](#)

---

### **Earth Week in North Hollywood: Bike Share Community Ride**

**Saturday, April 30th at 1:00 pm PDT, hosted by Metro Bicycle Education Safety Training Program**

Join LA County Bicycle Coalition and Metro Bike Share for this beginner & family-friendly, springtime ride to celebrate Earth Week, sponsored by Metro's Bicycle Education Safety Training (BEST) Program. The ride will begin at the North Hollywood Metro Bike Share Station located conveniently near the G (Orange) Line and B (Red) Line stations on the northwest corner of Lankershim and Chandler. We will ride in the bike lane past the Arts District businesses to the Chandler Bike Path, where we will ride past the Lankershim Depot and various murals. This is an out-and-back flat route that is welcoming to riders of all abilities.

[More Info](#)

---

### **Webinar: Reforming Governance to Transform Cities**

**Thursday, May 5th at 11:00 am PDT/2:00 pm EDT, hosted by Eno Center for Transportation**

Cities own the streets that transit agencies need for their bus lanes. Regions often lack a coordinated entity to oversee implementation of road pricing. Freight rolling off a regional port hub is not always synced with the state and local roadways that connect it.

[More Info](#)

---

### **Data for Active Transportation Research and Planning**

**Friday, May 6th at 1:40 pm PDT (hybrid), hosted by ITS-Davis**

Lack of available data can be a barrier to bicycling and pedestrian research and planning. Much of my team's research focuses on building novel data sources to map bicycling infrastructure, safety, and volume. In this presentation I will outline how we are using OpenStreetMaps to map bicycle infrastructure, crowdsource webmaps (BikeMaps.org and WalkRollMap.org) to map safety and access concerns, and modelling ridership using Strava data. I will discuss how crowdsource data provide unique opportunities to enhance active transportation data, but also challenges particularly around representativeness and equity.

[More Info](#)

---

### **METRANS Event: Markos Papageorgiou Presents: A New Traffic Paradigm in the CAV Era**

**Monday, May 9th at 9:00 am PDT (virtual), hosted by METRANS**

The ERC Advanced Grant TrafficFluid (2019-2024) launches a novel paradigm for vehicular traffic in the era of connected and automated vehicles (CAVs), which is based on two combined principles. The first principle is lane-free traffic, which renders the driving task for CAVs smoother and safer, as risky lane-changing maneuvers become obsolete; increases the capacity of the roadway due to increased road occupancy; and mitigates congestion-triggering vehicle maneuvers. The second principle is vehicle nudging, whereby vehicles may be "pushing" other vehicles in front of them; this allows for traffic flow to be freed from the anisotropy restriction, which stems from the fact that human driving is influenced only by downstream vehicles.

[More Info](#)

---

### **CSCMP Southern California Roundtable presents: Private Tour of Dodger Stadium**

**Wednesday, May 11st at 11:30 am PDT, hosted by CSCMP**

Join the SoCal Roundtable for a private tour of Dodger Stadium. We will go behind the scenes and see how they keep this amazing stadium in top shape year round.

Members: \$50, Non-Members: \$65, **Students: \$20**, Young Professional: \$33

[More Info](#)

---

### **Webinar: Standing Committee on Women and Gender in Transportation**

**Friday, May 13th at 10:00 am PDT/1:00 pm EDT, hosted by Transportation Research Board**

Meeting feature a panel discussion on: Present Issues and Progress towards Inclusive Transportation join the AME20 Spring Meeting to showcase recent research on that centers the needs and experiences of travelers with disabilities and marginalized gender identities.

[More Info](#)

---

### **2022 ITS California Annual Conference & Exhibition**

**May 16th to 18th at Hyatt Regency San Francisco Airport, hosted by ITS California**

Please check the Membership list to see if your organization is an ITS California Member to use the Membership discount.

[More Info](#)

---

### **Webinar: Impacts on Roads from Automated Driving Systems (ADS)**

**Thursday, May 19th at 10:00 am PDT/1:00 pm EDT, hosted by USDOT**

The recent Infrastructure Investment and Jobs Act (IIJA) calls for the Federal Highway Administration (FHWA) to conduct a study on the impacts of Automated Driving Systems (ADS) to transportation infrastructure, mobility, the environment, and safety. This study discusses both existing and future impacts of ADS on a range of areas, including but not limited to the existing transportation infrastructure, traffic operations, congestion, the environment, and personal mobility. This webinar will provide an overview of this study and highlight various automation-related activities across the FHWA.

[More Info](#)

---

### **2022 CITT State of the Trade and Transportation Industry Town Hall Meeting**

**Tuesday, May 24th at 7:30 am PDT (in-person), hosted by Center for International Trade & Transportation**

A free in-person Town Hall Meeting (including breakfast) and the presentation of the Domenick Miretti Award to TTSI's Vic La Rosa.

While the world awaits a clear victory over a global pandemic, the supply chain carries on. Disruptions and delays have been the big story in the news; but the supply chain has been surprisingly resilient in the face of unprecedented consumer demand over the past two years. As the freight system navigates these challenges, it also continues to work toward the sustainability goals set out by the State and called for by local communities.

[More Info](#)

---

### ***METRANS Event:* 9th METRANS International Urban Freight Conference**

**May 25th to 27th at Hyatt Regency Long Beach, hosted by METRANS**

The International Urban Freight Conference (I-NUF) is the premier biennial conference that addresses all aspects of city logistics and goods movement in the world's metropolitan areas. The conference brings together researchers and practitioners in urban freight, supply chains, and logistics from around the world. It is a showcase for cutting-edge research and dynamic information-sharing and provides a forum for researchers, policy makers, and practitioners to reimagine and guide the future of the industry.

[More Info](#)

---

### **Webinar: Cloud storage and data analytics and the impacts on Transportation**

**Friday, May 27th at 9:00 am PDT, hosted by ITS-Irvine**



Speaker: Randy Iwasaki, Leader, State and Local Transportation, Amazon Web Service (AWS).

[More Info](#)

---

### **Conference on Sustainability and Emerging Transportation Technology**

**May 31st to June 2nd (in-person), hosted by Transportation Research Board**

Transportation technologies (e.g., connected and automated vehicles) and new approaches to mobility (e.g., shared services) are advancing so rapidly that it can be difficult for policy makers to frame incentives, regulations, and market signals to promote all three pillars of sustainability: equity, the environment, and the economy. The Sustainability and Emerging Transportation Technology (SETT) Conference will address questions around how academics, policy-makers, the private sector, NGOs, and others can work together to shape new mobility solutions to benefit all users of our transportation systems.

[More Info](#)

---

### **ITSWC22 Student Essay and Video Competition (Sep 18-22)**

**Due on June 1st.**

Turn your knowledge of Intelligent Transportation Systems (ITS) into cash and win national recognition. ITS America Events and Southwest Research Institute® (SwRI®) are proud to partner once again for the 11th annual 2022 ITS Student Essay and Video Competition. This competition serves as an opportunity for today's transportation, engineering, and public policy students to apply their knowledge in a thought-provoking manner for a chance to win scholarship money, while building awareness of the high-tech transportation industry as a limitless career path.

[More Info](#)

---

### **Webinar: The Accessibility Shift: Transforming Urban Transportation and Land-Use Planning**

**Friday, June 24th at 9:00 am PDT, hosted by ITS-Irvine**

Speaker: Jonathan Levine, Professor, University of Michigan.

[More Info](#)

---

### **Webinar: Innovation Roadmaps for Freight Transportation in Europe**

**Friday, July 8th at 9:00 am PDT, hosted by ITS-Irvine**

Speaker: Lori Tavasszy, Professor, TU Delft.

[More Info](#)

---

## ***Fast Facts***

***Created for Students, by Students***

### **Charging Forward: Deploying Electric Vehicle Infrastructure for Uber and Lyft in California**

**Author:** Alan Jenn

**Year:** 2021

**Keywords:** Electric Vehicles, Charging Infrastructure, Transportation Network Companies, Clean Miles Standard



Check this week's featured Fast Facts [here](#).  
Looking for more Fast Facts? Check out the Fast Facts Page on [metrans.org](https://metrans.org)!

[Take me to Fast Facts](#)

## *Pathways to Opportunity*

### **Administrative Intern**

**City of Culver City**

Apply by 05/13/2020

[See more info](#)

### **WTS Orange County Scholarship**

**Women's Transportation Seminar**

Apply by 08/05/2022

[See more info](#)

[More Internships and Scholarships Here](#)

### **Engineers and Designers**

**Infratech Engineering**

Apply ASAP

[See more info](#)

### **Transportation Finance Specialist**

**Federal Highway Administration**

Apply by 04/29/2022

[See more info](#)

[More Job Opportunities Here](#)

## *Newsletter Staff*

Clark Hong-Sheng Hsu • *Newsletter Lead* • [hsuh@usc.edu](mailto:hsuh@usc.edu)

Agil Wibowo • *Social Media Lead* • [agilwibo@usc.edu](mailto:agilwibo@usc.edu)

Emily Ng • *Opportunities Editor* • [emng@usc.edu](mailto:emng@usc.edu)

Christopher Keating • *Fast Facts Editor* • [cckeatin@usc.edu](mailto:cckeatin@usc.edu)

Hayley Rundle • *Staff Writer* • [hrundle@usc.edu](mailto:hrundle@usc.edu)

Jacob Wong • *Staff Writer* • [wongjaco@usc.edu](mailto:wongjaco@usc.edu)

Dr. Victoria Deguzman • *Advisor* • [victoriv@price.usc.edu](mailto:victoriv@price.usc.edu)

## *METRANS Associates*

Major Funders



Associate Partners



Academic Partners



Copyright © 2022 METTRANS Transportation Consortium, All rights reserved.

New users and interested parties: [subscribe here](#).

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).