



METRANS on the Move: our weekly newsletter by students

Happy April!
Be sure to check out our new Fast Facts section!



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.

Meet the METRANS Fast Facts Team



Meet METRANS Fast Facts Team

To enable quick access to research, METRANS has launched the Fast Facts project, an ongoing series of cutting-edge research summaries created by students for students- and anyone - who'd like an easy to read introduction to new transportation research.

Read more [here](#).



Biden's Infrastructure Plan to Total \$2.25 Trillion, Include Corporate Tax Hikes

President Joe Biden announced a \$2.25 trillion climate change-centric infrastructure plan meant to repair the country's roads and bridges, and guarantee nationwide access to broadband internet and safe drinking water.

Read the Transit Topics feature [here](#).



Congestion Reduction via Personalized Incentives

This webinar will discuss research on developing real-time algorithms to reduce traffic congestion and improve routing efficiency by offering personalized incentives to drivers. The research explores the wide availability of driver communication devices and develops real-time look-ahead incentive mechanism using individual's routing and aggregate traffic information, verified by real data.



Meisam Razaviyayn
Assistant professor of EE with courtesy appointments in the Electrical and Engineering Department and the Computer Science Department at USC.

Ali Ghafelbashi
Third-year Ph.D. student at USC. He obtained his B.S. in Industrial Engineering from the Amirkabir University of Technology in 2018.

METRANS, PSR, NCST, USC ITE host Razaviyayn and Ghafelbashi for Congestion Reduction via Personalized Incentives Seminar

"Incentives and alternative routes should be chosen smartly in order to maximize the probability of acceptance by the driver and to avoid the creation of new congestion in other areas of the network."

Read more [here](#) and click [here](#) for the NCST Publication.

Webinars & Online Events

Smart Mobility Connection Presents Smart Mobility Connection Seminar
Friday, April 9th at 9:00 am PDT

Leveraging a AI-based racing league, the Community College of Allegheny County engages skilled trade students without any AI background to create, train and deploy autonomous racing models. . .

[More Info](#)

Safety through Disruption (Safe-D) University Transportation Center (UTC) Presents Use of Disruptive Technologies to Support Safety Analysis and Meet New Federal Requirements

Friday, April 9th at 10:00 am PDT

States are required to have access to annual average daily traffic (AADT) for all public paved roads, including non-Federal aid system (NFAS) roadways. . .

[More Info](#)

TransportationCamp PHL 2021

Saturday, April 10th at 7:00 am PDT

The team that brought you the industry's first virtual conference is back again for another virtual incarnation of TransportationCamp PHL!

[More Info](#)

FMRI Webinar: Multimodal Transportation Planning

Monday, April 12th at 10:00 am PDT

Planning for transportation involves several different disciplines to accommodate population growth, improve mobility, and advance the economy. It is a complex process that should consider social . . .

[More Info](#)

PSR, METRANS, and UC Davis ITS Presents University Transportation Center's Congress 2021

Monday, April 12th & Tuesday, April 13th at 12:30 pm PDT

Day 1 is open to the public & Day 2 is open to students at all levels from PSR region

The Pacific Southwest Region 9 (PSR) University Transportation Center's Annual Congress gathers transportation stakeholders from throughout the region to share new research results, best practices . . .

[More Info](#)

USC ASPD & METRANS Presents: State of Planning 2021 Roundtable

Wednesday, April 14th at 11:30 am PDT

Associated Students of Planning and Development (ASPD) Board is hosting this event for students in USC Price programs to get an insider's perspective on current planning careers.

[More Info](#)

METRANS & PSR Spring 2021 Career Series: Team Excellence and Overcoming Obstacles - A Leader's Perspective

Thursday, April 15th at 4:00 pm PDT

Join us for an opportunity to learn about team leadership from METRANS Student Chief of Staff, Lt. Colonel Sean Fazande. Drawing on decades of military experience as well as his doctoral education . . .

[More Info](#)

**Looking for more events occurring this week and next?
Check out our "Additional Events" section below!**

[Take me to more Events](#)

Fast Facts

Created for Students, by Students



Fast Facts

Cutting edge transportation research summaries

Created for students, by students

The Opportunity Cost of Parking Requirements: would Silicon Valley be richer if its parking requirements were lower?

Authors: Michael Manville, CJ Gabbe, Taner Osman

Year: 2020

Keywords: parking, land use, urban mobility, transportation planning, policy, finance

What's going on?

Measured by GDP per capita, many of America's most productive metros— New York, San Francisco, Boston, etc.— are its most dense. Silicon Valley, however, is an outlier: it is less dense but much more productive than its peer regions. This raises two questions: why is its density relatively low, and would it be even more productive if its density was higher? We hypothesize that the low density arises in part because of Silicon Valley's large stock of parking.



What were the findings?

This study found that across seven Silicon Valley municipalities, the median share of a parcel devoted to parking is 52%. Had parking requirements been reduced by half, the region would have saved over 11 million square feet in parking space. This repurposed space could have provided over an additional 6,700 multifamily housing units and 12,800 jobs, amounting to 37% of Silicon Valley's actual job growth rate between 2000 and 2016. In summary, this study suggests that strict parking mandates do not just needlessly create an auto-oriented built environment. They also consume land that could be used much more productively in other ways.

What's next?

The findings in this study can ground municipal efforts to revamp outdated zoning codes and scale back detrimental parking requirements.

Read the full report on our website:

<https://metrans.org/research/the-opportunity-cost-of-parking-requirements-would-silicon-valley-be-richer-if-its-parking-requirements-were-lower->

The Pacific Southwest Region UTC conducts an integrated, multidisciplinary program of research, education and technology transfer aimed at improving the mobility of people and goods throughout the region.

Pathways to Opportunity

LADOT Volunteer Interns

LADOT

Los Angeles, CA

Apply by 04/16/21

[See more info](#)

WTS-OC Mentoring Program

WTS-OC

Virtual

Apply by 04/09/2021

[See more info](#)

[More Internships and Scholarships Here](#)

Director, Transportation Operations

LA Metro

Los Angeles, CA

Apply by 04/09/21

[See more info](#)

Principal Transportation Planner

ODOT

Portland, OR

Apply by 04/12/2021

[See more info](#)

[More Job Opportunities Here](#)

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