



Semi-Annual Progress Report #6

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1. Overview

A. Major goals of the program

The Pacific Southwest Region (PSR) University Transportation Center (UTC) serves Region 9 with a comprehensive, integrated program of research, education and technology transfer built upon the priority needs of the region: 1) supporting an efficient transportation system, 2) increasing the efficiency and resilience of the goods movement system, and 3) expanding workforce opportunities. Our research program is tailored to address US DOT strategic goals.

Our consortium of universities and community colleges, together with partnerships with state Departments of Transportation (DOTs), Metropolitan Planning Organizations (MPOs), and industry leaders, forms a comprehensive, region-wide network. The University of Southern California (USC) leads the consortium. Partners include California State University Long Beach (CSULB); University of California, Berkeley (UCB); University of California, Davis (UCD); University of California, Irvine (UCI); University of California, Los Angeles (UCLA); University of Hawai'i at Manoa (UH); Northern Arizona University (NAU); Pima Community College (PCC); and University of Nevada, Las Vegas (UNLV). USC and CSULB are both partners in the METRANS Transportation Center, the entity that houses the PSR UTC. Our accomplishments are categorized under research, education, and outreach. Workforce development is included in "education" in this document. Administrative changes are discussed first.

B. Administrative Changes

Daniel Rodriguez, ITS Berkeley Director, was on sabbatical during this reporting period. Scott Moura, ITS Berkeley Acting Director, provided leadership in his absence at **UCB**.

UCD's subaward under PSR has changed its research themes/priorities to align with new USDOT priorities. Additionally, Lauren Iacobucci, the previous UCD PSR Assistant Director, has moved to another position. Her responsibilities have largely been taken on by UCD PSR Research Program Manager Sydney Cliff.

Shashi Nambisan is on sabbatical leave at **UNLV**. During this period, while he continued to lead the overall programmatic efforts on the PSR UTC subaward to UNLV, Brendan Morris handled some of the administrative matters related to UNLV's part in the PSR UTC.

UCI's principal Investigator for PSR was changed from Stephen Ritchie to Jean-Daniel Saphores following Professor Ritchie's retirement.

2. Research Accomplishments

The goal of PSR is to address regional issues and engage in transportation research that will transform both knowledge and practice while supporting US DOT strategic goals, and providing public policy advisement, technical assistance to state and local agencies, and innovative workforce development. Our research, education, and outreach program is multi-modal and multi-disciplinary, engaging all our partners and stakeholders throughout Region 9.

Our research program has four parts: 1) research initiated and conducted by PSR faculty; 2) research conducted by researchers inside or outside PSR but within Region 9; and 3) a graduate research fellowship program, and (4) stakeholder-partnered research projects which pair PSR faculty and stakeholders and end-users from the earliest stages of the research. The stakeholder-partnered projects, which are new in the BIL UTC, are intended to accelerate technology transfer by working with practice from the earliest stages of research conceptualization. The more traditional faculty-initiated projects are research that is still formative and hence not ready for partnering at the earliest stages.

A. Revised Research Topic Areas

These revised topic areas were developed in conjunction with DOT and approved by DOT in Fall of 2025.

Topic 1, Technology to Increase the Efficiency of the Transportation System: New transportation technologies bring the possibility of reduced congestion, increased efficiency, and economic growth. Some examples of these promising new technologies include ridehailing, autonomous vehicles, aerial mobility, automation, and the potential for advanced sensors, robotics, and data analytics to improve the construction, maintenance, or operation of the transportation system. Bringing advanced technology to practice, in ways that can scale, requires scientific and engineering advances, business and industry readiness, and supportive public policy. Research in this topic area can include studies that (i) focus on scientific, engineering, or technical advancements that will enhance the surface transportation system, or (ii) lead to improved approaches to managing or accelerating technology adoption in transportation.

Topic 2, Data and Computational Innovations for Transportation: Transportation is being transformed by a combination of massive data resources, location-aware technologies, real-time communication, and digital mapping. This topic can include studies of advanced computation and data analysis, including artificial intelligence applied to transportation. Sample topics might include research into location-aware data as an approach to advanced travel modeling, the development of scenario planning models and digital twins that go beyond traditional travel models, and methods to manage infrastructure to increase throughput and efficiency in real-time, near real-time, or through scenario models. Research in this topic area can also analyze traditional data sources (e.g., census or household travel survey data) to address modeling or policy issues that are important in Region 9.

Topic 3, Improving the Safety of the Transportation System: Safety is one of the most pressing transportation needs in Region 9 and the nation. Research in this topic area can include projects that analyze data to identify locations where safety improvements are needed or methods that reduce collision or crash risk or severity. Research in this topic area could also include methods to increase safety and perceptions of safety on the transportation system. Research in this topic area could focus on methods to verify or increase the safety of new innovations, such as autonomous vehicles, or on development or deployment of sensors or data analysis that can increase safety. To improve safety, new innovations must be implemented. For that reason, research that supports more rapid and more sustained adoption of safety enhancing methods is also appropriate in this topic area.

Topic 4, Efficient Goods Movement: The US goods movement system is efficient, but not nearly as efficient as it could be. A fundamental problem is that the supply chain is an interconnected system, but

each part operates independently. When shocks occur in interdependent and high-velocity supply chains, disruptions can be major. Research in this topic area can develop models and methods for coordination of freight demand across modes and firms, generation and management of freight data, better management of pickups and deliveries, and increasing supply chain flexibility and resilience. Research in this topic area can also include new technologies that bring the promise of increased efficiency, including applications of automation, robotics, real-time routing, data analytics, and artificial intelligence. Research in this topic area can include studies of public policies that impact the efficiency of the goods movement system.

Topic 5, Resourcing a More Efficient Transportation System: This topic area will focus on methods that can bring needed resources – be they financial, time, or expertise – to the transportation system. Governments across Region 9 and the nation are experiencing a gap between transportation needs and available resources. Research in this topic area could examine novel methods for fiscal management – e.g., tax or pricing changes or public private partnerships – that could enhance the resources available for the transportation system. Research in this topic area could also study improvements in process, efficiency, or training that can reduce the time or cost needed to build, maintain, retrofit, or operate transportation infrastructure and systems. Methods of analysis that support efficient decision making are also appropriate in this topic area.

For all topic areas, research projects must have a clear link to the surface transportation system and must fit with the statutory research priority area “Improving Mobility of People and Goods.”

Relationship Between the Revised Research Topics and the November 2022 PSR Proposal

The topics above are fully consistent with our successful 2022 application and with the research conducted by PSR in Years 1 and 2 of the PSR UTC grant. The five topic areas listed above would have nested within one or more of the below topics from the 2022 proposal.

Topic 1.2: Improving the Efficiency of the Mobility System

Topic 2.2: Goods Movement System Efficiencies and Resilience

Cross Cutting Topic (Topic CC): Access to Opportunity Through Strategic Workforce Development

Quick Restart Projects

Following the September 29, 2025 federal grant reinstatement, the PSR UTC programmed five new projects with remaining Year 2 funding. Those projects were submitted for pre-approval on October 15 and were approved by US DOT in early December. Those projects are listed below by title and Principal Investigator.

Project Title	Principal Investigator
Potential Impact of Autonomous Vehicles on Reducing Congestion	Maged Dessouky
Digital twin for managing the curb and reducing congestion	Genevieve Giuliano
Modeling Event Travel Dynamics for the 2028 Los Angeles Olympics Using Large-Scale Mobility Data	Abigail Horn

Routing Autonomous Trucks on Dedicated Lanes	Petros Ioannou
UAM-enabled Multimodal Analysis of Transportation Systems for LA28 and beyond	Ketan Savla

Each of the above projects is programmed for a Phase 1 (January 2026 through December 2026), and a Phase 2 (May 2026 through May 2027). The Phase 2 work will be funded by Year 3 PSR UTC funding upon approval for Year 3 spending from US DOT. This will accelerate a set of “quick restart” projects that will move our research program forward rapidly.

Future Research

Future research rounds, in Year 3 and beyond, will adhere to the research topics listed above, and will follow the peer review process outlined in our 2022 grant proposal. All US DOT requirements for notification and pre-approval will be followed.

B. In-Progress Research Projects

The following projects are in-progress during the reporting period.

Table 1: Projects in-progress during the reporting period.

Note on Funding Source: CT-PSR= Caltrans funds (for California partners), match funding source

Partner	Project No.	PI	Title	Start Date	Funding Source
USC	PSR 23-16 *	Razaviyayn, Meisam	Enhancing Traffic Flow through Private Data Sharing and Incentivizing New Mobility Services	3/1/2024	USDOT
USC	PSR 23-19 *	Giuliano, Genevieve	Closing the Gap: A Comparative Study of Transportation Accessibility for Adults with Disabilities in Urban and Rural California	3/1/2024	USDOT
USC	PSR-24-54 *	Suen, Sze-Chuan	Optimizing Mobile Health Routing and Scheduling to Enhance Healthcare Access	3/1/2024	USDOT
USC	PSR-24-55 *	Ioannou, Petros	Intersection Control of Connected Vehicles for Mobility and Safety	3/1/2024	USDOT
UNLV	PSR-24-47 *	Bein, Wolfgang	Online Competitive Algorithms and Reinforcement Learning for Traffic Management	3/1/2024	USDOT
UNLV	PSR-24-45 *	Erdem, Mehmet	Transportation Needs of Service Sector Employees in the Resort Corridor	3/1/2024	USDOT

UNLV	PSR-24-44*	Morris, Brendan	Research Experience for Undergraduates (REU): Smart Cities – Advancing Mobility	3/1/2024	USDOT
USC	PSR-25-SP01	Dessouky, Maged	Potential Impact of Autonomous Vehicles on Reducing Congestion	11/1/2025	USDOT
USC	PSR-25-SP02	Giuliano, Genevieve	Digital twin for managing the curb and reducing congestion	11/1/2025	USDOT
USC	PSR-25-SP03	Horn, Abigail	Modeling Event Travel Dynamics for the 2028 Los Angeles Olympics Using Large-Scale Mobility Data	11/1/2025	USDOT
USC	PSR-25-SP04	Ioannou, Petros	Routing Autonomous Trucks on Dedicated Lanes	11/1/2025	USDOT
USC	PSR-25-SP05	Savla, Ketan	UAM-enabled Multimodal Analysis of Transportation Systems for LA28 and beyond	11/1/2025	USDOT
UCD	PSR-25-M01	Barajas, Jesus	Disability, Mode Perceptions, and Travel Behavior	1/1/2026	CT-PSR
UCB	PSR-25-M02	Shaheen, Susan	Which Way Forward? Learning from Global Informal Transport Networks to Inform Microtransit Services	3/1/2026	CT-PSR
UCLA	PSR-25-M03	Kim, Youngseo	California Transportation Planning Tool for Statewide Data-Driven Optimization	11/1/2025	CT-PSR

* In process as of May 2 grant termination, restarted following Sept. 29 grant reinstatement. Hence the delay in completing the project is due to the period of grant termination.

Other Research Accomplishments During the Review Period

UCB:

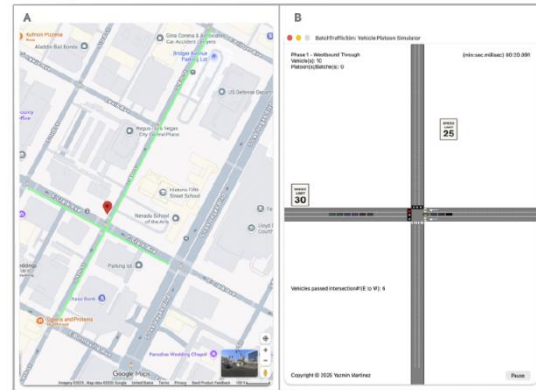
1. Hosted 11 seminars
2. Presented research results and supported 34 students’ attendance at 5 conferences:
 - a. Annual Meeting of the Association of Collegiate Schools of Planning (1 student)
 - b. International Conference on Advances in Geographic Information Systems (1 student)
 - c. Annual Conference on Neural Information Processing Systems (1 student)
 - d. Annual Meeting of the Transportation Research Board (20 students)
 - e. Pacific Coast Transportation Workshop (11 students)

At **UCI**, their primary goals during the reporting period were to restart PSR activities following the reinstatement of the center. Their priorities were to award graduate student fellowships and to support student travel to the TRB Annual Conference. They also began to start planning for round of faculty research projects using both Caltrans match funding and their annual Statewide Transportation

Research Program RFP as cost share. In addition, they held the 2026 Irvine Symposium on Emerging Research in Transportation in March, 2026.

UNLV accomplished the following during the reporting period:

- 1) The major activities for this period center on applying batching concepts to transportation to optimize traffic flow and minimize motorist delays.
- 2) They created BatchTrafficSim, a 2D microscopic traffic simulator, to study vehicle platoon delay and gain insights into the delay process.
- 3) The work contributes a framework for analyzing traffic platoon delay, which includes a plan for conducting such studies, the steps for creating a simulation tool, and the collection of baseline real-world vehicle delay data for comparison.



At **CSULB**, CITT received the Council of University Transportation Centers (CUTC) Workforce Development Leadership Award for contributions to high school pathway programs in partnership with the Port of Long Beach and Long Beach Unified School District. The award, which is also sponsored by the American Public Transit Association, was announced on January 10, 2026, in Washington, D.C during the 2026 CUTC Awards Ceremony. The award is given annually to an institution that demonstrates outstanding leadership in designing and delivering workforce development programs.

C. Student opportunities for research

Student support is an important component of research project selection. Highlights of how PSR has supported students:

UCI supported the following graduate students were awarded PSR fellowships to pursue their PhD topics:

1. Praneetsai Vasu Iddamsetty, Safety Evaluation of Intelligent Traffic Management Systems Using Machine Learning Driven Security Vulnerability Analysis (2 quarters)
2. Elaine Gilbert, Integrated Modeling of Residential Location Choice and Commuting Efficiency Using Large-Scale Travel (1 quarter)
3. Montana Reinoehl, Empirical Studies of Travel Behavior and Methodological Refinements to Data Processing and Model Specification (1 quarter)
4. Melissa Lepe, A Framework for Enabling Performance and Public-Centric Advanced Air Mobility Implementation (2 quarters)

UCB supported four students conducting research at Berkeley:

1. 1 student under SafeTREC Director Julia Griswold on “A Time Space Exploration of Traffic Crash Trends During the Covid Recovery.”

2. 2 students under ITS Acting Director Scott Moura on “Fleets in Flux: Electrification and Decision-Making Within Government Fleets in cooperation with the California Department of Transportation under the center goal of Improving the Durability and Extending the Life of Transportation Infrastructure.”
3. 1 student on his capstone project “A Computer Vision approach to Analyzing Intersection Design and Urban Active Transportation Infrastructure.”

During this period, **UCLA’s** administrative team developed a revised plan to strengthen graduate student support while ensuring continued compliance with federal requirements. Under the updated model, the fellowship program primarily funded PhD students engaged in faculty-led research supported by the PSR program. This approach not only deepens students’ research training but also advances their broader workforce-development mission by preparing emerging scholars for careers in transportation, planning, and public-sector services.

UCLA also awarded two fellowship awards to Urban Planning PhD students, Samuel Speroni and Yu Hong Hwang under previous commitments to participate in PSR-related research.

Student Awards & News

USC Ph.D. student Aisling O’Reilly was selected as the PSR UTC’s choice for the 2025 U.S. Department of Transportation Outstanding Student of the Year award. In addition to the U.S. DOT Outstanding Student of the Year competition, faculty from across the ten PSR institutions nominate students pursuing transportation- related degrees based on technical skills, academic performance, and leadership qualities in the internal PSR Student of the Year competition. Four student winners are selected as Student of the Year within their particular degree levels. The 2025 winners are Yanlin Qi, Ph.D. student in Transportation Technology and Policy at UC Davis; Jon Atkins, Master’s student in Civil Engineering & City Planning at UC Berkeley; Ava Elia, B.S. in Geography, Environment, and Society at Northern Arizona University; Ritchel Reynes, graduate of CSULB’s Global Logistics Professional certificate program.



2025 PSR STUDENTS OF THE YEAR

	USDOT Outstanding Student of the Year Aisling O'Reilly University of Southern California PhD in Urban Planning & Development	
	PSR Doctoral Student of the Year Yanlin Qi University of California, Davis PhD in Transportation Technology and Policy	
	PSR Master's Student of the Year Jon Atkins University of California, Berkeley Master's in Civil Engineering & City Planning	
	PSR Undergraduate Student of the Year Ava Elia Northern Arizona University B.S. in Geography, Environment, and Society	
	PSR Certificate Program Student of the Year Ritchel Reynes Cal State University, Long Beach Global Logistics Professional Certificate Program	 CALIFORNIA STATE UNIVERSITY LONG BEACH

Reimagining the future of transportation

Yuquan (Wendy) Zhou, an Urban Planning & Development Ph.D. candidate at USC's Sol Price School of Public Policy, has been awarded the 40th Annual Charles M. Tiebout Prize in Regional Science at this year's Western Regional Science Association conference. This prize is awarded in honor of the outstanding contributions to regional science made by Charles M. Tiebout.



Left to right: Dr. Genevieve Giuliano (USC); Dr. Marlon Boarnet (USC); Yuquan (Wendy) Zhou, PhD Candidate (USC); Dr. Geoff Beoing, Zhou's dissertation advisor (USC)

Zhou's paper titled, "Overestimating Essential Services Accessibility? Static vs. Dynamic Spatiotemporal Measures Using Individual Mobility Data in Los Angeles" was deemed the best graduate student paper in regional science. The Tiebout prize has been awarded to USC PSR students two years in a row.

UCLA graduate Nick Giorgio MURP '25 has been awarded the Council of University Transportation Centers' (CUTC) Neville A. Parker Award for his master's project, "Intersection Traffic Calming Treatments: A Comparative Analysis." Giorgio's research, conducted in partnership with the Los Angeles Department of Transportation (LADOT), evaluated the effectiveness of all-way stops, traffic circles, and mini-roundabouts in reducing vehicle speeds and improving neighborhood safety. The award, presented on January 10, 2026, in Washington, D.C., marks the fourth year in a row a UCLA student has received this national honor. The project was advised by Professor Brian Taylor and also received the 2025 UCLA ITS capstone grand prize.



In February, **UCD** sent out award notices for the Fall 2025 Call for Proposals for Dissertation Grants to award both PSR and National Center for Sustainable Transportation BIL funding. One proposal was selected for PSR funding, titled, "A Data-Driven Resilience Framework to Monitor Supply Chain Disruptions and Assess Critical Freight Infrastructure," by PhD Candidate Juan Lopez. UC Davis also released its Spring 2025 Call for Proposals for Dissertation Grants at the end of March.

Traditionally, CSULB has hired students from undergraduate and graduate programs at CSULB to serve as student assistants. Student assistants work in a variety of functions, generally reflecting a student's area of study (i.e., a graduate student in the College of Liberal Arts primarily works in a research role, an undergraduate student in the College of Business primarily works in roles that develop skills associated with early career professionalization and demonstrate particular skills, etc.).

D. Additional Research Accomplishments – Leveraging PSR Research

CSULB is continuing the \$1.5 million **National Science Foundation** grant to develop a mobile privacy assistant app and dashboard for Long Beach residents. The three-year project is designed to give users control over how the city collects personal data through smart technologies such as automated license plate readers, public Wi-Fi and Long Beach's parking app. The initiative builds on the research team's existing Digital Rights Platform. Click [here](#) for more information.

E. Research Dissemination highlights

Completed final reports and research briefs are available on the PSR research website at <https://www.metrans.org/metrans-research>.

A METRANS advisory board meeting was held on February 6, 2026 at the University of Southern California campus. METRANS Director Marlon Boarnet briefed [METRANS associate partners](#) on research updates, upcoming events, and potential collaboration opportunities.

UH developed training programs to prepare transit agencies and operators for the World Cup and other large events. Through two conferences, RESCON (March 9-11, 2026) and PRiMO (March 16-18, 2026) and Pacific Risk Management Ohana (PRiMO) – March 16-18, 2026, University of Hawaii, Campus Center. This is a conference collaboration with the University of Hawaii, NOAA, NDPTC, and some private-sector partners, focused on risk reduction. Karl Kim, Ph.D. (University of Hawaii), Daniele Spirandelli, Ph.D. (Haley & Aldrich), Pradip Pant, Ph.D. (State of Hawaii Department of Transportation), Qian He, Ph.D. (Rowan University), and Jaemin Song, Ph.D. (Seoul National University).

UCB presented at the following conferences:

1. Annual Meeting of the Association of Collegiate Schools of Planning
2. International Conference on Advances in Geographic Information Systems
3. Annual Conference on Neural Information Processing Systems
4. Annual Meeting of the Transportation Research Board
5. Pacific Coast Transportation Workshop (in place of the 2026 PSR Annual Congress)

UCLA hosted the 100 Year Lecture Series. As part of its ongoing commitment to transportation workforce development and public education, UCLA launched a special **100-Year Lecture Series** commemorating a century of transportation research, policy leadership, and innovation at UCLA. The series brings experts, practitioners, and scholars to campus to reflect on the evolution of the field in Los Angeles from the past, present, and future, highlighting emerging challenges and opportunities shaping the next century of mobility. Designed as a public-facing educational initiative, the lectures provide students, researchers, and community partners with access to cutting-edge insights while strengthening the Institute's role as a hub for knowledge exchange. Recordings and materials are made broadly available on our Youtube Channel to extend continued learning across the transportation community, including current PSR students, faculty, and alumni.



The RFP program at **UCLA** was led by Youngseo Kim and launched in March 2026 with USDOT federal funding, the project ‘CalTranPlanner: California Transportation Planning Tool for Statewide Data-Driven Optimization’ aims to develop a city-scale transportation network tool. By leveraging diverse California-specific data, the tool generates precise predictions for travel demand, mode choice, and road-level traffic volumes. This platform provides a data-driven foundation for infrastructure investment and policy-making, ensuring transportation services remain resilient amidst shifting demographics and emerging mobility trends. The project will conclude with a comprehensive journal article and policy brief.



F. Plans for next reporting period

USC plans to:

1. Implement industry and government stakeholder technical advisory committees for USC research projects, moving forward, to speed the outreach process and more rapidly move research results into practice. This practice will be expanded to PSR research projects at partner universities, also.
2. Convene the METRANS Advisory Board and PSR Advisory Council to advise on Year 4 research objectives.
3. Release Year 4 request for proposals.
4. Continue with seminar series.
5. Start on five Phase 2 “quick restart” projects described above.
6. **USC** is also in active discussions linking our PSR research to stakeholders at, e.g., LA 28, LA Metro, the Ports of Los Angeles and Long Beach, and many industry and community stakeholders.
7. Caltrans is a major provider of match funding and we anticipate completing the master agreement for Caltrans research funding, delayed during the stop-work period, early in the next reporting period. This will allow a robust Caltrans focused research program, and USC is in discussions with Caltrans to start that program rapidly upon approval of the master agreement.

UCB expects to accomplish the following:

1. Complete all student- and faculty-led research currently in progress.
2. Begin work on Caltrans funded faculty-led research projects:
 - one awarded by Caltrans and confirmed by OST-R to be used as cost share.
 - one awarded by Caltrans and pending approval by OST-R to be used as cost share.
 - two other projects pending award by Caltrans then to be submitted to OST-R for consideration to be used as cost share.

NAU plans to:

1. Use funds to continue funding a graduate research fellow, undergraduate research interns, and student and faculty travel for dissemination, outreach, and workforce development.

2. They will be hosting the Mountain District ITE Student Leadership Summit in Flagstaff in June, 2026, but have no plans to use any funds from this grant to support it.
3. Regarding outreach, NAU plans to continue in-school K-12 presentations on transportation engineering as part of the Flagstaff Festival of Science In-School Speaker Series. Additionally, NAU AZTrans will continue to submit our exhibit entitled “Behind the Scenes: How Our Roadways are Designed & Operated” for presentation at local STEM events and festivals. The transportation-focused exhibit has equipment set up to show how traffic signal systems detect vehicles and efficiently move traffic through intersections, among other items.

UCD plans to do the following:

1. UC Davis’s Spring 2026 Call for Proposals for Dissertation Grants will close in early May. UC Davis expects to award one PSR-funded dissertation grant from this call, contingent on Year 3 funding for the center.
2. UC Davis expects to participate in a consortium-wide 2026 PSR RFP for USDOT- and Caltrans-funded research grants, contingent on available federal and Caltrans funding.
3. Once Year 3 funding is disbursed, UC Davis plans to fund a proposal originally selected via the 2025 PSR USDOT RFP: “Keeping Food on the Move: A Data-Driven Framework for Resilient and Efficient Food Supply Chains,” with Dr. Miguel Jaller as PI.
4. Additionally, contingent on Year 3 funding, ITS-Davis will contribute some PSR funding to the ITS-Davis Student Travel Grant Program, which provides travel support to graduate and undergraduate students for conference presentations (will receive DOT approvals as needed). ITS-Davis also plans to continue providing travel support to members of the UC Davis ITE Student Chapter.

UCI plans to hold its annual Statewide Transportation Research Program RFP to solicit transportation research on topics important to the State of California. Where appropriate, these projects may be identified as Cost Share matching projects for PSR.

UH plan to finish the training development, conduct training, and report on the results. Work towards making the training into a FEMA certified training. to prepare transit agencies and operators for the World Cup and other large events.

At **UNLV**, they we will continue our educational efforts that were previously part of the grant program (e.g., undergraduate and graduate student related activities), research activities that were initiated in Year 1 and continued into year 2, workforce development / technology transfer activities including seminars / workshops (with US DOT’s approval), and participate in relevant conferences, meetings, symposia, and workshops.

PCC plans the following:

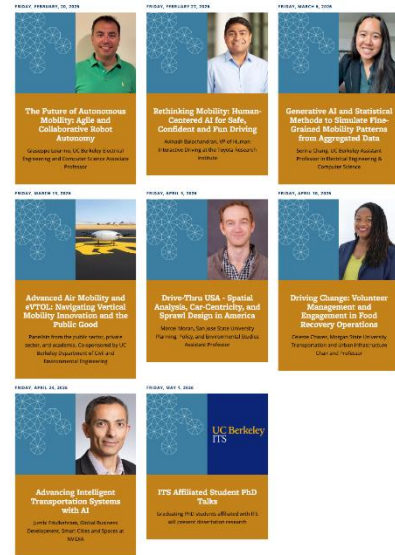
1. Logistics Fast Track cohorts will continue at the Gospel Rescue Mission’s Center for Opportunity. This short-term, noncredit Principles of Logistics and Supply Chain Management class is built with industry input and creates a short pathway for guests of Gospel Rescue Mission, resulting in a transcribed course and student entry into the workforce.
2. Outreach events will continue as well as the rewrite of two Logistics courses.

- The Center will also continue to work with their Autonomous Vehicle Driver and Operations Specialist advisory committee to seek input and ensure workforce readiness when industry is ready to hire.

3. Educational Accomplishments

A. Student Programs

UCB hosted 11 seminars for students with average attendance over 50. These seminars are offered to students as a 1 credit graduate level class. They also provided travel support to 20 students to the Annual Meeting of the Transportation Research Board, 11 students to the Pacific Coast Transportation Workshop, and 1 student to each of three additional conferences. Example of the handout is to the right.



UCI planned and recruited for their summer 2026 Transportation Research Immersion Program (TRIP). This is an eight-week paid summer program for undergraduate students (rising sophomores, juniors, and seniors) to engage in transportation research. Participants are assigned to a specific transportation research project and contribute meaningfully to that project under the guidance and mentorship of an ITS Faculty Associate. We anticipate 6 participants starting in July.

B. Workforce development

PSR offers many ongoing workforce development programs that have been written about in-depth in past SAPRs. These programs include: **Commercial Driver License (CDL) Training** (PCC), an innovative Truck Driver Training Program that reaches out to a rural/tribal audience to provide the training and certifications necessary to start a career; **Southern California Workforce Development Needs Assessment for Supply Chain and Transportation Industries** (CSULB), identifies existing and future workforce skills gaps for middle-skill occupations in southern California’s supply chain and transportation chain industries; **Academy of Global Logistics (AGL)** (CSULB), this collaborative partnership combines academic curriculum with industry-led training to support academic and career development for high school students; **AZTrans** (NAU), supports STEM outreach activities that provide exposure to transportation to K-12 students and members of the public. Those are continuing with the BIL PSR UTC.

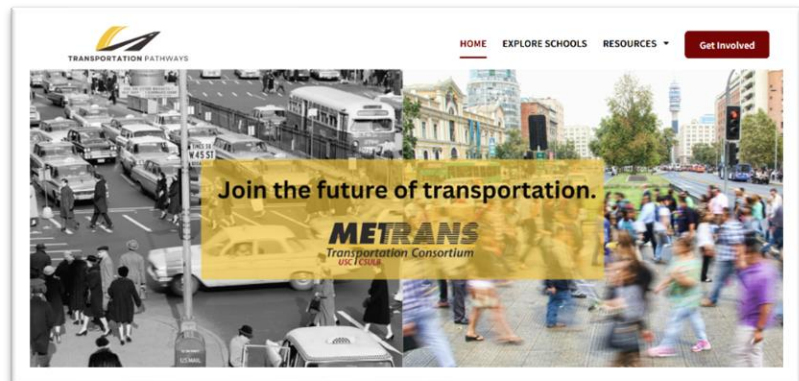
UCLA’s fellowship program cultivates a robust pipeline of transportation experts, bridging the gap between academia and industry by preparing specialized PhD students for the workforce. Through their involvement in PSR-funded initiatives, these fellows translate their training into actionable research that shapes regional transportation planning and policy.

As discussed during the previous reporting period, **CSULB** was awarded \$1.25 million in funding to support workforce development efforts in the national railway sector. CSULB’s award is part of a larger \$6.4 million infrastructure initiative funded by the federal Department of Transportation’s Federal Railroad Administration. The grant is administered through the Consolidated Rail Infrastructure and Safety Improvements (CRISI) Program. The Western Transportation Institute at Montana State University leads the five-year grant in partnership with Big Sky Passenger Rail Authority, University of Memphis, and CSULB. During the reporting period, CSULB participated in project meetings with other partners, conducted state and national recruitment for the multisector working groups, began the labor market analysis, and drafted a workforce needs assessment.

Regarding workforce development, **NAU’s** student chapter of ITE held ten different events during this reporting period with a variety of speakers bringing their employment and career experiences to our NAU students. A total of 110 individuals attended these events.

Transportation Pathways

USC METRANS launched the Transportation Pathways website in Summer of 2025. Most recently, METRANS has hired a USC graduate student to help refine, promote, and track the impact of the site. The web site, envisioned in our 2022 UTC grant application, serves as a general resource for students, counselors, educators, and community leaders by providing information and resources on transportation- focused educational pathways available at PSR institutions. The website includes information and resources on transportation-related degree and non-degree programs available across the PSR consortium.



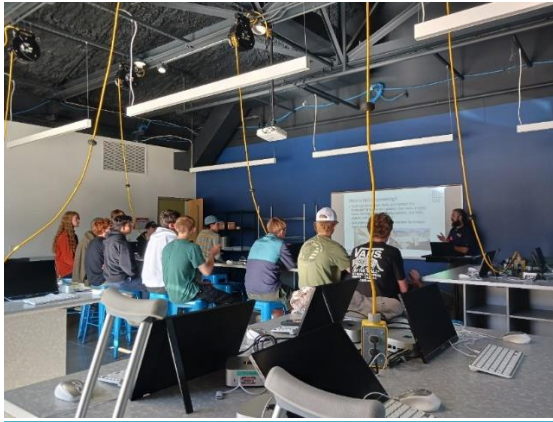
Additional resources such as financial aid and admissions information from each institution is also be provided for students. See <https://transportationpathways.org/>.

C. K-12 Programs

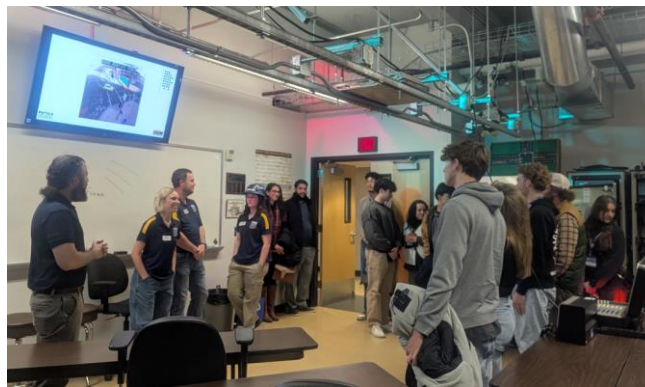
During the reporting period, **NAU** completed several K-12 outreach activities during this reporting period including an in-class presentation to engineering classes at a local middle/high school, high school students visiting the NAU traffic lab, and judging of the Future City STEM competition. Details and photos of these events are provided below.

NAU hosted an **in-classroom presentation to Northland Preparatory Academy Engineering Classes**. Brendan Russo and a NAU graduate student Chelsie Fowler presented an introduction to transportation engineering to three introductory engineering classes of 9th and 10th grade students (~60 students total)

at Northland Preparatory Academy in Flagstaff, AZ on October 14th, 2025. The presentation included an introduction to the different disciplines of civil engineering, details on the type of work transportation engineers do, and included several in-class activities. For one activity, students assessed the impact of human perception-reaction time on stopping sight distance if they were designing a high-speed roadway. Students were also introduced to the basic concepts of traffic signal operations and were introduced to the 4-step travel demand model used in transportation planning. Photos of this event are below.



On November 22nd 2025, a group of high school students visited the **NAU** Traffic Lab for the Discover NAU event. During this visit, students were given a presentation and demonstration by NAU faculty Brendan Russo and NAU Graduate Research Assistant Anthony Eschen on how traffic signal controllers work and were given a talk regarding traffic operations and detection at signalized intersections. Approximately 30 students attended, and a photo from this event is below.



CSULB and the Center for International Trade and Transportation support the Port of Long Beach Academy of Global Logistics at Cabrillo HS to help pursue the AGL goals to:

- Develop students' foundational knowledge of logistics and understanding of the value of global trade and transportation in our community
- Prepare students for entry level career opportunities for in-demand, high opportunity career paths in international trade and transportation

- Document students' knowledge and understanding of industry concepts acquired in this pathway and build on that knowledge each year as they progress towards graduation
- Provide students with information to pursue a wide range of training and higher education opportunities including certificates, certifications, and degrees offered at a community college or four-year university upon graduation from high school

4. Outreach Accomplishments

A. International Urban Freight Conference

Following the highly successful 2025 International Urban Freight Conference (described in SAPR 5), we solicited papers presented at that conference for a special issue of the open-source, peer-reviewed journal *Transportation Research Interdisciplinary Perspectives*. That special issue, on "Transforming Freight," was co-edited by guest editors Marlon Boarnet and Maged Dessouky. The issue so far has nine papers accepted, with one paper still in review. The special issue is expected to be published in the next review period.

B. Ongoing Outreach Activities

PSR conducts many outreach efforts that have been described in past SAPRs. Ongoing outreach activities include: **CSULB CITT Center Updates**, bimonthly e-blasts to industry/academia consisting of brief articles covering relevant Center activities with a focus on the freight sector and workforce development; **Logistics Peer Exchange** (CSULB), a peer exchange on best practices in regional freight planning and coordination; **Mobility Matters** (CSULB), a CITT podcast series dedicated to addressing mission-critical issues facing the professionals who design, develop, operate, and maintain mobility systems.

METRANS News: During this past reporting period, USC METRANS and CSULB continued the newsletter issues with newsletters in December 2025, January 2026, and March 2026. Each newsletter includes an example of transformative research, summarizing a recently completed PSR research project. METRANS News also summarizes education and outreach and includes coverage of other METRANS projects and activities. The average opening rate was 37.73%, compared to 42.99% during the previous reporting period. The range for a good open rate is 15-25%, and the newsletter's open rate exceeds this range. This is generally consistent with Constant Contact's overall average of 35%. The monthly newsletters are archived [here](#).

USC METRANS PSR-supported METRANS Research Seminars held during the reporting period included:

- [How the Aircraft Cargo Airship Is Redefining Goods and Freight Movement](#), Igor Pasternek, CEO & Founder of Aeros Inc.
- [Zoox's Autonomous Shuttles as a Transportation Tool](#), Phillip Pierce, City Policy Lead at Zoox

Transfers Magazine

During this period, the editorial team worked on a new plan for the future of Transfers Magazine, including presenting numerous options for new ways of creating content around PSR research. On the



written side, we've decided to lean into writer-led, scholar-reviewed articles — an approach we hope will relieve some of the editing bottlenecks when authors are asked to convert their technical articles into a magazine-style of writing. We've also highlighted various multimedia content options, including video interviews and podcast episodes. We have already identified a candidate to produce the videos, and have pitched various

articles to our in-house podcast. This spring 2026, we will be finalizing and publishing the articles that were in the queue prior to ceasing operations, and have identified some research and articles to highlight in the future.

During the reporting period, two **UCD** Friday Seminars were supported by PSR:

1. "Toward Safe Speeds: A Multipronged Approach to Addressing Speed-related Crashes in California", with Julia Griswold, Director, UC Berkeley Safe Transportation Research and Education Center (SafeTREC)
2. "Bridging Mobility and Health: Promoting Physical Activity and Safety through Active Transportation Research and Advocacy", with Morgan Hughey, Associate Professor of Public Health & Faculty Fellow at the Riley Center for Livable Communities, College of Charleston

CSULB hosted the Port of Long Beach Government Relations Division's "Ship Shape Sessions" retreat at CSULB's Anna W. Ngai Alumni Center on February 3, 2026. The session was led by Joel Perler, Manager of International Engagement & Strategic Advocacy, and was attended by the Port's Government Relations Division, as well as representatives from CSULB's College of Professional and Continuing Education (CPaCE) and University Relations Division. The Honorable Cambodian Consul General Kim Chha Hout attended the event as a special guest speaker to discuss the key role that the Port plays in supporting international trade.



Port of Long Beach Government Relations Division (from left to right): Alejandra Guitron, Joel Perler, Nina Turner, Jeanne Brand, Sara Baumann, Deborah Rowe, Adrian Granda

The 2026 Irvine Symposium for Emerging Research in Transportation (ISERT) hosted by **UCI** was held on March 6-7 at the Continuing Education building on the UC Campus. The intimate two day event involved roughly 50 participants and featured a Keynote by UC Berkeley's Professor Alexandre Bayen, 4 technical sessions with 16 podium presentations, a student poster session, along with a celebratory session highlighting the career of now retired ITS-Irvine Director Stephen Ritchie. Photo to the right.



5. Participants & Collaborating Organizations

Participants contribute to the work of the PSR through financial or other support, or directly in research, education, or technology transfer. Collaborating organizations participate in Center activities, provide advisement, or support the center.

A. Financial support

Over the course of the grant, these are among the entities who provided match funding for PSR research projects. This list is a sample and is not exhaustive.

- California Department of Transportation (Caltrans)
- Los Angeles Business Council (LABC)
- California Air Resources Board
- Peterson Foundation
- University of Southern California research support

B. Other support

PSR researchers leverage UTC funding into a broad array of additional support. Existing or recent past grants include:

- California Air Resources Board (Boarnet)
- Defense Advanced Research Projects Agency (Carlsson)
- Gwen Schaffer National Science Foundation grant described in Section 2D of this report
- Office of Naval Research (Carlsson)
- National Institutes of Health (Suen)
- National Science Foundation (Krumm, Molisch, Shahabi)
- University Leadership Initiative (Ioannou)
- USC-Capital One Center for Responsible AI and Decision Making in Finance (Carlsson)

The following organizations provide or have provided in the past (e.g. Fast Act UTC or BIL UTC) indirect or in-kind support to PSR:

- **California:** Council of Supply Chain Management Professionals (CSMCP); Fehr & Peers; Foothill Transit; HDR; International Longshoremen and Warehousemen’s Union (ILWU) Local 13; Long Beach Unified School District; Majestic Realty; MetroLink; Orange County Transportation Authority (OCTA); Port of Long Beach, Port of Los Angeles; San Francisco Metropolitan Transportation Commission; San Francisco Municipal Transportation Agency; Southern California Association of Governments (SCAG); Southern California Edison; UC Davis Road Ecology Center; UC Institute of Transportation Studies (UC-ITS); Yusen Terminals LLC
- **Arizona:** Arizona Board of Regents, Chamberlin Group, Pima Association of Governments, Northern Arizona University, Southern Arizona Anti-Trafficking United Response Network (SAATURN)
- **Hawaii:** National Disaster Preparedness Training Center (NDPTC), University of Hawaii
- **Others:** Federal Highway Administration; King County Metro (Seattle, WA); staff from state DOTs in California, Colorado, Maine, Minnesota, Nevada, and Virginia.

C. Additional Support

PSR has a tremendous network of partners. Thomas O’Brien (CSULB) and Genevieve Giuliano (USC) are past presidents and past executive committee members of the **Council of University Transportation Centers (CUTC)**, and Susan Handy (UCD) and Marlon Boarnet (USC) are current members of the CUTC board; USC is the lead for the **U.S. Department of Transportation’s University Partnership Program for the US-ASEAN Smart Cities Program**, partnering with the University of Indonesia, University of Technology Malaysia, Institute of Technology Cambodia, and Chulalongkorn University (Thailand); **Institute of Transportation Studies (ITS)** (UCD, UCI, UCLA), provides match funding and other resources; **MetroFreight Center of Excellence** (USC, CSULB), METRANS is the home of the Volvo Research and Education Foundation (VREF) Center of Excellence on urban freight and offers many opportunities for international collaboration and partnerships; **National Center for Sustainable Transportation (NCST UTC)** (UCD, USC), strengthens and expands our work in sustainable freight transport; **The Center for International Trade and Transportation** (CSULB), uses its media and social media channels to announce events and other opportunities to a network of students and industry and government partners; **TuSimple** (PCC), offers program support and priority hiring to graduates; **UCLA Lewis Center for Regional Policy Studies**, provides workspace and matching funds researchers and staff at UCLA ITS; **Velodyne Lidar** (UCI), provided a donation of two LiDAR units that are supporting current graduate student fellowship and faculty research projects. The following **METRANS Associates** provide additional financial support: LA Metro, Majestic Realty, Port of Long Beach, Port of Los Angeles, Southern California Association of Governments, WSP USA, Western States Petroleum Association, Los Angeles World Airports, ESRI, Foothill Transit.

D. Collaborations

PSR has an extensive network of collaborations with academic, public and private organizations. Many of these have been described in past SAPRs.

USC partners with:

1. The Los Angeles Business Council (funding) and several industry partners (knowledge supporting partners include the Harbor Trucking Association and trucking firms).
2. The World Bank's Global Transportation Group
3. The California Air Resources Board
4. The Southeast Los Angeles Collaborative
5. METTRANS Associates Program and wider knowledge and technology transfer interactions, a range of entities including: The Gateway Cities Council of Governments, the City of Los Angeles, L.A. Metro, the Southern California Association of Governments, the San Diego Association of Governments, the Ports of Long Beach, Los Angeles, Hueneme, and San Diego, Los Angeles World Airports, and several other public, private, and non-profit entities.

UNLV is partnered with the following organizations:

1. National Science Foundation in Washington D.C.
2. Regional Transportation Commission of Southern Nevada in Las Vegas, Nevada
3. Culinary Workers Union Local 226 in Las Vegas, Nevada
4. William Werner, Associate Dean of Faculty, College of Hospitality, UNLV, Las Vegas NV – expert in hotel industry labor relations.
5. University of the Federal Armed Forces, Munich.

NAU is partnered with the following organizations:

1. MAG (Maricopa Association of Governments): They have an partnership with MAG that is ongoing, and they expect to wrap up an emerging technology grant this coming spring.
2. Phoenix: They wrapped up a task order to provide guidance to the city on implementation of LPIs (Leading Pedestrian Intervals) and other signalized intersection pedestrian treatments across the city.
3. Arizona Transportation Institute (AzTI), which connects experts from NAU, the University of Arizona, and Arizona State University to solve problems identified by ADOT.
4. Furthermore, NAU has maintained our established relationship with the Arizona Institute of Automated Mobility (IAM). The IAM was established by the Arizona Governor in 2018 to provide technical guidance and coordination aimed at fostering the implementation of automated mobility across Arizona.
5. During this reporting period, a team from NAU collaborated with transportation experts from the University of Arizona and Arizona State University (ASU) and the University of Arizona on an ADOT/AZTI project entitled "Assessing the Consumption Costs of Motor Vehicles on Arizona Roads and Bridges."

CSULB is partnered with the following organizations:

1. California Hydrogen Business Council - <https://californiahydrogen.org/>
2. Evoelectric - <https://evoelectricnow.com/>
3. Fuel Cell Integration Group at Toyota Motor North America Research and Development - https://www.toyota.com/usa/operations/map/ttc_ann_arbor_and_saline
4. Sunstone Management Inc. - <https://www.sunstoneinvestment.com/>
5. Hyzon Motors - <https://www.hyzonfuelcell.com/>

At **UH**, they are collaborating with:

1. Lisa Staes, Director, Center for Urban Transportation Research
2. Nick Barilo, Hydrogen Safety Program Manager, Pacific Northwest National Laboratory, Executive Director of the Center for Hydrogen Safety at the American Institute of Chemical Engineers.
3. Dr. Hilary Nixon, Deputy Executive Director, Mineta Transportation Institute, San Jose Institute – Lead P.I. on Consolidated Rail Infrastructure and Safety Improvements (CRISI) for the Federal Railroad Administration - Climate Change and Extreme Events Training and Research (CCEETR) program. UH is a Co-PI on this project.
4. Ruben Pena, Director of Government Surface Transportation; Boris Nejikovskiy, Special Advisor; Eric Sherrock, Senior Engineer; Eric Magel, R&D Manager - ENSCO is the recipient of the contract to manage the Transportation Technology Center, a US DOT Federal Railroad Administration (FRA) center. Working on Hydrogen Transport Futures projects with ENSCO.
5. Dr. Brian Wolshon, Louisiana State University, Department of Civil and Environmental Engineering, Gulf Coast Center for Evacuation and Transportation Resiliency, Maritime Transportation Research and Education Center (MarTREC) examining evacuation issues related to wildfires, volcanic eruptions, and other natural hazards to improve evacuation training course.

At **UCLA**, they are collaborating with some organizations below:

1. Siskiyou County Local Transportation Commission at Los Angeles on the project, “Siskiyou County LTC: Transit Revitalization Recommendations (Mia Lewis)”
2. Office of Council member Bob Blumenfeld on the project, “Los Angeles' ADU Ordinance & Its Impact on Neighborhoods in the Greater Western San Fernando Valley (Miles Cressy)”
3. Southern California Association of Governments on the project, “Transitioning Transportation Pilot Projects into Long-term Programs (Josephine Dine)”
4. Los Angeles Department of Transportation (LADOT) on the project, “Enhancing Mobility and Access for Carless/Car-Deficient Household in Los Angeles (Alyssa Suzukawa)”
5. California Air Resources Board on the project, “Tolling for Tomorrow: Road Pricing as a Climate Strategy in California (Alexandria Florin)”

UCB is collaborating with:

1. Self-eSTEM in Oakland, California to host a workforce development summer camp. The California Department of Transportation (Caltrans), Sacramento, California, awarded a research project to be led by Professor Susan Shaheen: “Which Way Forward? Learning from Global Informal Networks to Inform Microtransit Services in California.” OST-R has approved this state-funded project to be applied as cost share.
2. UC Berkeley is collaborating with the Lawrence Hall of Science, Berkeley, California, to develop and present an exhibit on “The Future of Transportation.”

UCD is currently collaborating with:

1. California Department of Transportation

2. California Air Resources Board
3. Miocar

6. Outputs

PSR outputs include publications, reports, papers, presentations, media, and others. Our target for peer-reviewed publications is 25 per year; our target for presentations is 30 per year. During this reporting period, we have produced **23 peer-reviewed** journal publications and **18 presentations**.

A. Websites

The [PSR website](#) is the central, authoritative source of information regarding our center. Our consortium members also maintain additional sites that contain information relevant to PSR's research and activities. Some of these sites are:

- CITT (CSULB): <https://www.cpie.csulb.edu/center-for-international-trade-and-transportation>
- CITT Articles: <https://ww2.cpie.csulb.edu/news/citt-news/citt-in-the-news>
- eScholarship (UCD, UCI, UCLA): <https://escholarship.org/>
- ITS-Davis: <https://its.ucdavis.edu/>
- METRANS: <https://www.metrans.org/>
- NAU PSR UTC: <https://in.nau.edu/aztrans/psr-region-9/>
- NAU's Cyclist Routing Algorithm for Network Connectivity (<https://rc.nau.edu/cranc>)
- PCC's Center for Transportation Training has a facebook, instagram and twitter page: [@pcctruckdriver for all](#)
- Transfers Magazine (PSR flagship publication): <http://www.transfersmagazine.org/>
- UC Berkeley Digital Repository of ITS Berkeley research reports: <https://escholarship.org/uc/its>
- UC Berkeley news: <https://its.berkeley.edu/>
- UC Davis eScholarship: <https://escholarship.org/uc/itsdavis>
- UCI seminar series: www.its.uci.edu/seminars
- UCLA ITS YouTube channel: <https://www.youtube.com/c/UCLAInstituteofTransportationStudies/>
- UCLA ITS: <http://www.its.ucla.edu>
- UCLA Lake Arrowhead Symposium: <http://www.uclaarrowheadsymposium.org>
- UCLA Transfers Magazine: <http://www.transfersmagazine.org>
- Open access to UCLA Institute of Transportation Studies reports, capstone projects, and policy briefs: https://escholarship.org/uc/ucla_its
- UH website (includes posts on PSR research): <https://ndptc.hawaii.edu>
- UNLV website: <https://smartcities.sites.unlv.edu/>

B. New methodologies, technologies, or techniques

Nothing to report.

C. Other products

Nothing to report.

7. Outcomes

PSR's goal is to effectively and efficiently move research to practice so that new knowledge can be shared, acted upon, and contribute to a more efficient innovative, and effective transportation system. We achieve our goal through technology transfer activities: events, communications, training, and client-based research. We define outcomes as any changes made to the transportation system, or its regulatory, legislative, or policy framework, resulting from research and development outputs.

Farzana Khatun and Jean-Daniel Saphores' worked at **UCI** assessing LA Metro's GoPass program provided key insights into the effectiveness of free transit programs. The results confirm the presence of strong spatial effects. They find that census tracts with more young males, more transit stops, mixed land use, and more participating schools accessible within 30 min by transit have more GoPass boardings. Conversely, the number of GoPass boardings decreases with more access to private vehicles, property crimes, multifamily units, and a higher population density. A better understanding of the characteristics of GoPass users and GoPass usage is useful to improve GoPass and to inform transit agencies interested in creating similar programs. (See <https://doi.org/10.1016/j.itrangeo.2025.104442> or the project page <https://metrans.org/research/how-to-enhance-student-outcomes-while-strengthening-transit-an-analysis-of-los-angeles-la-metro-s-gopass-fareless-pilot-program> for more details).

CSULB's support of the Academy of Global Logistics (AGL) helps develop homegrown transportation and logistics talent in the City of Long Beach, leading high school students to promising careers that are literally right in their backyard.

The project, "Optimizing Mobile Health Routing and Scheduling to Enhance Healthcare Access" led by PI Sze-Chuan Suen at **USC** have developed an optimization formulation that can handle the routing/scheduling problem at the scale needed for implementation by LADPH, and it has been implemented in Gurobi and tested. They are working on refining it and exploring the impact of additional realistic constraints for added functionality.

During the reporting period, PI Gen Giuliano (**USC**) produced the following outcomes for the project, "Closing the Gap: A Comparative Study of Transportation Accessibility for Adults with Disabilities in Urban and Rural California":

1. Completed a three-stage analysis of participant transcripts from Los Angeles and Tulare Counties.
2. Developed the "Mobility Tax" framework, identifying five systemic "costs" (Administrative, Cognitive, Physical, Time, and Social) that participants pay for travel.
3. Modeled simulated trips for Los Angeles and Tulare Counties to hospitals, disability support services, and adult day facilities. Estimated car, transit, and paratransit travel times to each destination.

4. Learned that in Los Angeles, shorter trips are most highly penalized for paratransit travel. In Tulare County, local travel is efficient due to siloing of local services, whereas regional services are nonexistent. The findings suggest potential policy reforms for paratransit at the large urban and rural scale.

In PI Giuliano's (**USC**) project, "Digital twin for managing the curb and reducing congestion," they collected all of the network and freight delivery demand data, developed delivery demand for commercial, office, and residential deliveries, used a vehicle routing solver to generate routes across the three sectors and four vehicle types within a freight peak demand period time window. The next step is to begin SUMO microsimulation of the vehicle routes.

The project "Intersection Control of Connected Vehicles for Mobility and Safety," lead by PI Petros Ioannou (**USC**) refined algorithms and results by considering different protocols of traffic management and control. Decentralized versus centralized. What they found is that grouping of vehicles in platoons can increase efficiency.

During the reporting period the project, "Modeling Event Travel Dynamics for the 2028 Los Angeles Olympics Using Large-Scale Mobility Data," led by PI Abigail Horn (**USC**) has:

1. Conducted a literature review that covers both domain and methodologically-related content, including (i) survey-based methods and (ii) novel data stream and smartphone-mobility informed studies of travel dynamics to major events such as sporting games or concerts and secondary visits (food, etc.); changes in transit behavior for local residents; and differences across socio-demographic groups, season, time of day, and location.
2. Prepared data for modeling. For mobility data this includes verifying linkage with Point of Interest data, selecting case studies of major historical events occurring at a subset of venues where Olympics and Paralympics Games are being planned, defining and sampling a study sample and control panels, and assigning demographic features. They have also explored official data on attendance to selected case study events, to be used to ground-truth mobility-derived analyses.
3. They have begun to generate descriptive statistics on key features of mobility behavior for two populations during recent historical major events at relevant Olympic Games venues: visitors attending the events and local residents whose routine travel may be affected by event-produced congestion, to assess how event-produced congestion or system saturation alters those residents' routine travel. Statistics we have computed include origin destinations, event attendance duration and lingering (post-event) duration, category of places visited immediately post events and their distance from events. They have also produced maps representing these statistics.

PI Ketan Savla's (**USC**) project, "UAM-enabled Multimodal Analysis of Transportation Systems for LA28 and beyond" produced the following:

1. Literature review on demand modeling for urban air mobility systems;
2. Data analysis from the LA region to develop an O-D matrix for urban air mobility network; including charging constraints in dispatch operation of air taxis.

During this reporting period at PCC, the Center graduated 25 Class A commercial driver license (CDL) students and 9 Class B commercial driver license students. A few of the graduates are photographed below:



Pictured above: Leslie Dunn graduated in October 2025 with his Class B CDL plus passenger endorsement and was employed by Fort Huachuca in Sierra Vista, AZ.



Pictured above: In February 2026, Jaquayvion Hughes graduated with his Class A CDL and is utilizing his CDL with a roofing company.

8. Impacts

PSR defines an impact as that which influences the transportation system, or society in general, such as reduced fatalities, decreased capital or operating costs, community impacts, or environmental benefits. The journey of generating outputs and impacts is uncertain and happens over time. PSR's research products are made [available to the public](#).

USC is meeting with several Region 9 stakeholders, including the LA 28 Olympic organizing committee, to provide expertise for transportation management in unusual circumstances that include mega-events. We will report on this in future SAPRs.

At **UH**, three hundred nine trained on evacuation planning in six states (13 training deliveries) during the period of October 31 to March 31, 2025, increasing the capability of these agencies to be better prepared for evacuation from any disaster event.

At **USC**, PI Sze-Chuan Suen reported that they have not written their results for project, “Optimizing Mobile Health Routing and Scheduling to Enhance Healthcare Access,” but they expect their formulation to push forwards our scientific knowledge of scheduling and routing problems meant for realistic implementation. Given the complexity of the constraints and the scale needed for realistic problems, demonstrating our formulation in this setting provides a new benchmark for these types of problems.

9. Changes/Problems

A. Changes in approach and reasons for change

UCLA reported since the stop work order took effect on May 2, 2025, their student research initiatives and conference participation have faced significant disruptions. Furthermore, the production schedule for the upcoming *Transfers Magazine* has been delayed. They are currently restructuring these programs to align with federal compliance requirements while preserving their core objectives and impact.

UCD reported the delay in receiving Year 3 funding caused significant uncertainty in staff payroll and research funding.

B. Change of primary performance site location

Nothing to report.

C. Special Reporting Requirements

Nothing to report.

10. Appendix A

This appendix includes lists (non-exhaustive) of PSR researchers' publications and presentations from the current reporting period.

Publications

Peer-reviewed journal publications

1. Arundati, Y. C. (2025). Intergenerational Connection in Berkeley Public Space (UCB-ITS-PSR-2025-02). <https://escholarship.org/uc/item/3qv1s55m>
2. Arusei, E. (2025). Bridging the Gap: Enhancing Access to the San Francisco Bay Trail (UCB-ITS-PSR-2025-05). <https://escholarship.org/uc/item/3cs7n1fg>
3. Balaganesan, B. (2025). Leveraging Underutilized Land for Sustainable Housing Development in the San Francisco Bay Area: Assessing Opportunities and Constraints in Low-VMT Areas to Align Housing Production with Climate and Equity Goals (UCB-ITS-PSR-2025-04). <https://escholarship.org/uc/item/48n332nc>
4. Baverman, M. (2025). Transit-Oriented Development and Commuting Patterns in a Gentrifying Bay Area: Exploring the Relationships Between Neighborhood Change, Displacement, and Implications for Transit Use (UCB-ITS-PSR-2025-07). <https://escholarship.org/uc/item/9bt7x4xx>
5. Broader, J. (2024). Tapping In: Leveraging Open-Loop Fare Payments to Increase Financial Inclusion (UCB-ITS-PSR-2024-07). <https://escholarship.org/uc/item/88v9c0wm>
6. Chen, A. (2024). A Safe System Approach to Pedestrian High Injury Network Development in Oakland, California (UCB-ITS-PSR-2024-02). <https://escholarship.org/uc/item/2pn189p3>
7. Chorge, O., Russo, B., Smaglik, E., and E. Doerry. AI-SCAN: An Automated Tool for Analyzing Vehicle Pedestrian Conflicts at Intersections. Submitted in October 2025 for presentation at the 2026 International Road Safety and Simulation Conference.
8. Cunneen-Franco, M. (2025). The Future of Urban Paid Parking: Learning from Davis's Seven Year Debate (UCB-ITS-PSR-2025-01). <https://escholarship.org/uc/item/0h6018f6>
9. Eschen, Anthony (G)., Russo, BJ., Elia, Ava (U), and Smaglik, Edward. "Comparison of microsimulation software for analyzing operational impacts of non-traditional two-way stop-controlled intersections." Accepted for presentation at the 2026 World Conference on Transport Research. Toulouse, France. July 6th-10th, 2026.
10. G. Rostomyan, K. Savla and P. A. Ioannou, "Central Coordination of Connected Autonomous Vehicles at a Signal Free Intersection," in IEEE Transactions on Intelligent Transportation Systems, DOI: 10.1109/TITS.2025.3640559
11. Gupta, M. (2024). Power To Pedal: A Gendered Analysis of the Barriers and Joys of Cycling in Oakland (UCB-ITS-PSR-2024-06). <https://escholarship.org/uc/item/0jw0n66r>
12. Heuser, K. L. (2024). "Don't Keep Us Out of the Revolution!": Accessibility and Autonomous Rideshare in California (UCB-ITS-PSR-2024-03). <https://escholarship.org/uc/item/3pp8k71h>
13. Martinez, Y., & Bein, W. (2025). Methods for Identifying Issues with Traffic Signal Timing Parameters and Potential Adjustments: A Survey. In In: Latifi S. (eds) Information Technology - New Generations. Advances in Intelligent Systems and Computing. Springer Verlag.

14. Khatun, Farzana and Saphores, Jean-Daniel (2025). Free transit for students to regain ridership: Users and boarding characteristics of LA Metro's GoPass program. *Journal of Transport Geography*, Volume 129, ISSN 0966-6923, <https://doi.org/10.1016/j.jtrangeo.2025.104442>.
15. Mills, J. (2025). Mass Transit Stop and Route Inventory and Mapping: Development and Refinement of a Protocol (UCB-ITS-PSR-2025-06). <https://escholarship.org/uc/item/1xz8s32t>
16. Moon, J., Erdem, M., Nambisan, S., Byzyka, J., Bai, B., Koneti, S., Werner, B., *Transportation Needs and Commuting Stress Among Hospitality Employees: A Perspective from the Las Vegas Strip Corridor*, Manuscript MS #1145, submitted for peer-reviewed presentation and publication to the International Council on Hotel, Restaurant, and Institutional Educators (ICHRIE) Global Conference, to be held in July 2026.
17. Reeb, T., & Taylor, B. (with Martinez Flores, D., & Reuter, J.). (2026). *A Hydrogen Hub Blueprint for the California Supply Chain* (Nos. 25–31). Mineta Transportation Institute. <https://transweb.sjsu.edu/research/2461-Hydrogen-Hub-Blueprint-California-Supply-Chain>
18. Reuter, J., & Reeb, T. (2025). *Identifying Workforce and Socioeconomic Factors Driving the California Transit Operator Shortage* (Nos. CA25-4093). California Department of Transportation / Center for International Trade & Transportation. <https://dot.ca.gov/-/media/dot-media/programs/research-innovation-system-information/documents/final-reports/ca25-4093-a11y.pdf>
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20. Shashi Nambisan, Juliana Byzyka, Mehmet Erdem, Billy Bai, Sushma Koneti, Jehun Moon, William B. Werner, Bethany Khan. (2025, December). *Transportation Needs of Service Sector Employees: A Case Study in Las Vegas, Nevada, in the United States*. In 8th Conference of Transportation Research Group of India (CTRG-2025), Paper Number 427. Guwahati, India. The manuscript was accepted following a double-blind peer review process. Nambisan presented the poster at the conference.
21. Slichter, E. (2025). Relationships, Capacity, and Trust: Youth Engagement Lessons Learned and Tools for OakDOT (UCB-ITS-PSR-2025-03). <https://escholarship.org/uc/item/5bv9h1nm>
22. Soucy, A. B. (2024). East Oakland Mobility Justice: A Case Study of the International Boulevard Bus Rapid Transit Project Safety and Displacement (UCB-ITS-PSR-2024-01). <https://escholarship.org/uc/item/4zm0z35z>
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Other publications

Conference papers

1. Martinez, Y., Bein, W. (2025). Methods for Identifying Issues with Traffic Signal Timing Parameters and Potential Adjustments: A Survey. 22nd International Conference on Information Technology: New Generations (ITNG), April 28, 2025, Las Vegas, NV.
2. Martinez, Y., Bein, W. (2025). Road Traffic Congestion Exploration and Visualization using Open Spatial-Temporal Data and HCI Principles. 2025 IEEE 15th Annual Computer and Communication Workshop and Conference (CCWC).

3. Shashi Nambisan, S., Nellutla, S., and Koneti. S., *A Comparative Analysis of Accessible Travel Options for the Vegas Loop vis-à-vis Key Existing Modes in Las Vegas*, 2025 Institute of Transportation Engineers (ITE) Mountain District Annual Meeting, Santa Fe, NM.

Presentations

1. Blumenburg, E., (2025, October 13). *Commuting and Super-Commuting Coming Out of the COVID-19 Pandemic: Insights from California*. [Conference presentation]. Association of Collegiate Schools of Planning Annual Conference, Minneapolis, MN, United States. https://www.acsp.org/page/2025Conf_Glance
2. Blumenburg, E., (2026, February 19). *Excavating the Burden of Super-Commutes and Super-Expensive Housing in California* [Seminar presentation]. NYU Wagner Seminar - Spring 2026, New York City, NY, United States. <https://wagner.nyu.edu/faculty/seminars/colloquium>
3. Brendan Russo. "Analyzing the Safety and Operational Impacts of the Left-in Left-out (LILO) Treatment", Presented on an AASHTO Intersection Control Evaluation Committee webinar, February 24th, 2026.
4. Ding, H., (2025, October 13). *The Housing and Transportation (H+T) Expenditure Burdens of Super-Commuting Households: An Analysis of California..* [Conference presentation]. Association of Collegiate Schools of Planning Annual Conference, Minneapolis, MN, United States. https://www.acsp.org/page/2025Conf_Glance
5. Giuliano, G., (2026, March). "Closing the Gap: A Comparative Study of Transportation Accessibility". PSR Annual Congress 2025, LA Metro Lunch & Learn.
6. Gupta, Mallika. (2024) "Power to Pedal: A Study of Women's Barriers to Cycling in Oakland" presented at TRB's 7th International Conference on Women and Gender in Transportation, September 9, 2024.
7. Ioannou, P., (2026, January 1). "Intersection Control of Connected Vehicles for Mobility and Safety." IEEE ITS Society
8. Kim, S., (2026, March 18). *Has COVID-19 Reshaped Work-Home Distances? A Spatial Analysis of California's Metropolitan Areas 2019-2022* [Conference presentation]. 2026 Association of American Geographers Annual Meeting, San Francisco, CA, United States. <https://www.aag.org/events/aag2026/>
9. Reeb, T. (2025, April 8). "Identifying Opportunities, Challenges, and Existential Threats Across the Supply Chain" [Panel Presentation]. International Urban Freight Conference Pre-Event, Long Beach, CA.
10. Reeb, T. (2026, February 19). *The Perfect Storm* [Panel Discussion]. California Transportation Foundation Forum, Sacramento CA.
11. Reeb, T. (2026, March 16). *Future of Work: Ports, Technology, and California's Workforce* [Panel Discussion]. Harbor Association of Industry & Commerce, Long Beach, CA.
12. Smaglik, Edward, "LPI Implementation Guidelines in Phoenix, Arizona: A Data Driven Approach. Presented to the Oregon State University ITE Chapter, January 6th, 2026.
13. Smaglik, Edward, "LPI Implementation Guidelines in Phoenix, Arizona: A Data Driven Approach. Presented a Portland State University Transportation Seminar, January 8th, 2026.
14. Suen, Sze-Chuan, A presentation was given on our findings at the INFORMS Annual Conference (Atlanta, Oct 2025) <https://meetings.informs.org/wordpress/annual2025/>

15. Wang, Bonnie and Marlon Boarnet, "The Relationship Between Remote Work and Workplace Traffic During and After COVID-19 in the Bay Area and Central Valley Region," presented at the 2026 Transportation Research Board annual meetings.