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UNIVERSITY OF CALIFORNIA
INSTITUTES OF TRANSPORTATION STUDIES

Overview & SB 1 Research Program

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Chair, UC ITS Council of Directors

Director, ITS-Irvine and

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UC ITS Overview



- **Mission** - to be the premier university-based transportation research and education center in the world, and to provide technology transfer and continuing education to practicing transportation engineers and planners in California
- **Branches** – UC Berkeley, UC Davis, UC Irvine, UCLA
- **Faculty** – 143
- **Graduate Students** – 627
- **Total Expenditures** (2016-17) - \$50.0M



Key Dates in 70 Year History of ITS

- 1947 - Established by California State Legislature to conduct transportation research and deliver technical training on behalf of the state
 - headquartered at Berkeley, with a branch at UCLA
 - core funding \$920,000, increased to \$980,000 soon after, *held constant* for 70 years (equivalent to about \$11M, or \$42M on a per capita basis, in 2017!)
- 1974 – Irvine branch created (and UCLA branch dis-established)
- 1980s – administration of ITS Berkeley and ITS-Irvine decentralized to each campus
- 1991 – Davis branch created, and soon after UCLA branch re-established
- 2016 – UC ITS Council of Directors established, via MOU with UC Office of the President, to better coordinate system-wide ITS activities
- 2016 - ITS receives one-time \$3 million augmentation from the Public Transportation Account
- 2017 - SB 1 passes and provides ITS with an annual budget of \$5 million



UC ITS Functions



Obtain extramurally funded research contracts and grants

- Sponsoring agencies include Caltrans, CARB, CEC, USDOT, NSF as well as many other public and private entities

Stewardship of transportation education at UC

- Educate future leaders via degree programs across a multitude of disciplines, as well as employ and support a large number of graduate and undergraduate students.

Assist in conducting and managing faculty research programs

- Support researchers with administrative, event, communication, and fundraising assistance; support graduate students with GSR appointments, fellowships, and conference travel; employ research staff.

Assist with placement of transportation graduates

- Provide graduate students with access to academic, industry, and government leaders from around the world through a variety of mechanisms.

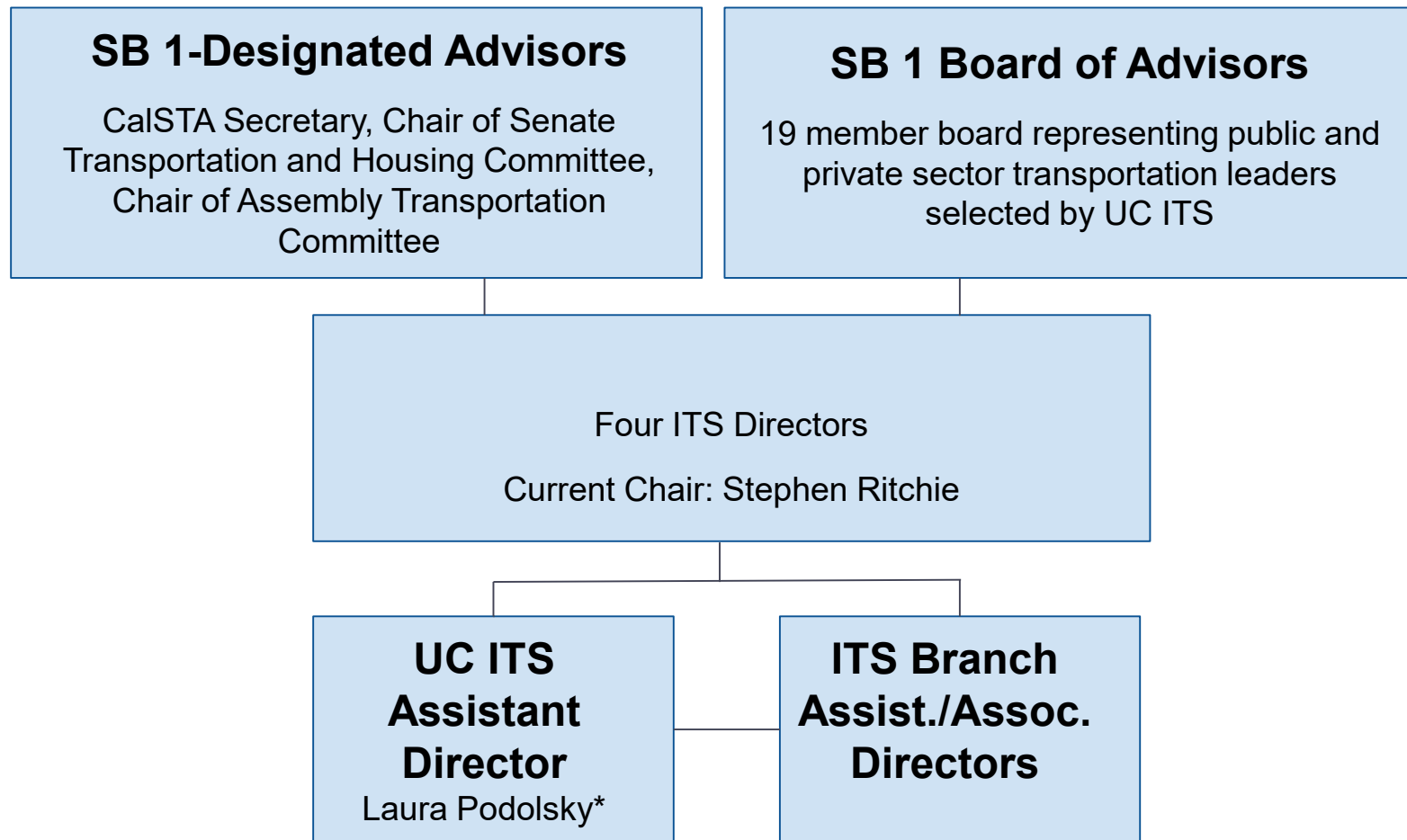
Host visiting researchers

- Host faculty and graduate students for extended stays to support collaborative research and cross-fertilize research collaborations around the world.

Organize conferences, seminars and briefings

- Engage with government and industry partners on conferences, webinars, seminars, lectures, and briefings on transportation issues critical to the state

SB 1 UC ITS Research Program Organizational Structure



*Based in Sacramento; reports to CCD Chair; facilitates coordination of research, communication, and engagement activities; serves as liaison to the Legislature and the Administration; previously served as ITS-Davis Policy Director for the National Center for Sustainable Transportation

UC ITS SB 1 Board of Advisors



Ken Alex, Director, Office of Planning and Research, State of California

Jim Beall, Chair, Senate Committee on Transportation and Housing, California State Legislature

Richard Bloom, Chair, Assembly Budget Subcommittee on Resources and Transportation, California State Legislature

Tilly Chang, Executive Director, San Francisco Transportation Authority

Malcolm Dougherty, Director, California Department of Transportation

Arthur Ellis, Vice President for Research and Graduate Studies, UC Office of the President

Jim Frazier, Chair, Assembly Transportation Committee, California State Legislature

Steve Heminger, Executive Director, Metropolitan Transportation Commission (San Francisco Bay Area)

Roland Hwang, Director, Energy & Transportation Program, Natural Resources Defense Council

Hasan Ikhrata, Executive Director, Southern California Association of Governments

Fran Inman, Chair, California Transportation Commission

Randell H. Iwasaki, Executive Director, Contra Costa Transportation Authority

Brian Annis, Secretary, California State Transportation Agency

Mary D. Nichols, Chair, California Air Resources Board

Janea A. Scott, Commissioner, California Energy Commission

Joshua W. Shaw, Executive Director, California Transit Association

Phillip A. Washington, Chief Executive Officer, Los Angeles Metropolitan Transportation Authority

Bob Wieckowski, Chair, Senate Budget Subcommittee on Resources, Environmental Protection, Energy, and Transportation, California State Legislature

Randall Winston, Executive Director, California Strategic Growth Council

Overview of UC ITS SB 1 Research Program



- \$5M annually
- ~\$200,000 for research at non-ITS UC campuses
- Research must address CA priorities & policy and must identify and engage with one or more public sector stakeholders (every project must have a letter of support from such partners)
- Research selected through competitive RFP processes

UC ITS SB 1 Research Priorities (unranked)

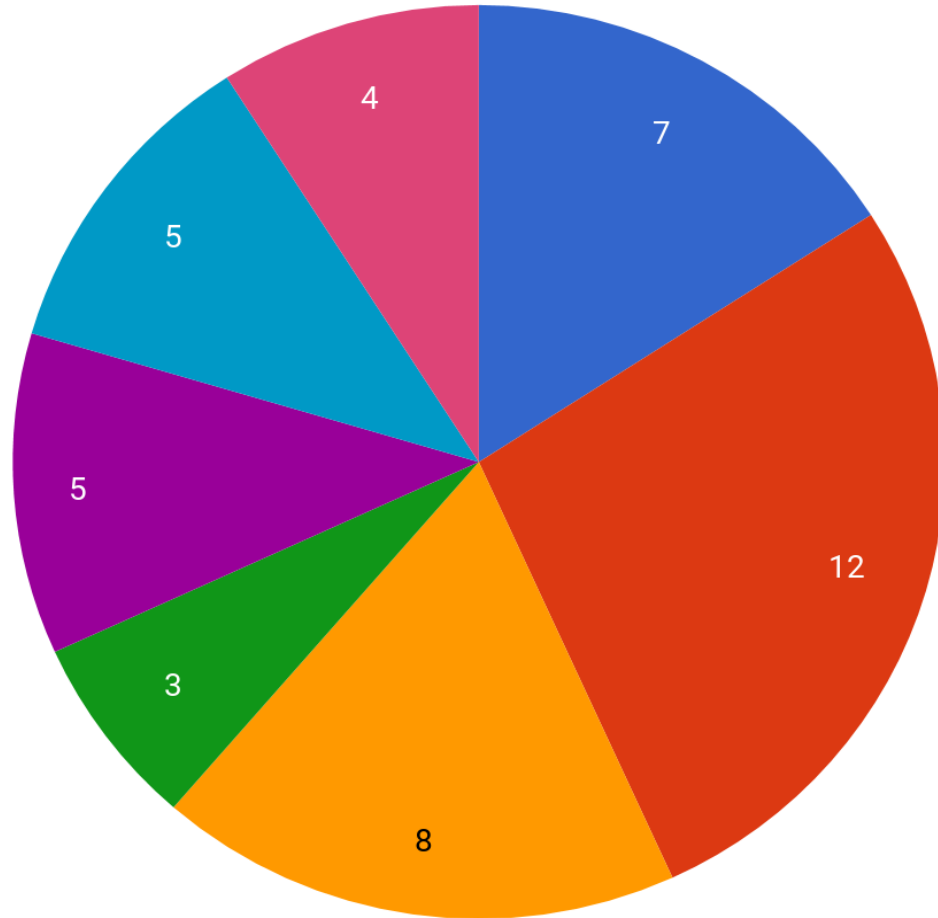


- Connected and Automated Transportation
- Data-Enabled Decision and Policy Making
- Greenhouse Gas and Oil Reduction
- Infrastructure Resilience: Disaster Management and Cybersecurity
- Mobility and the Sharing Economy
- Public Transit
- Sustainable Goods Movement
- Sustainable Transportation Funding
- Transportation Equity, Environmental Justice & Economic Development
- Vehicle Travel and Land Use Integration



SB 1 2017-18 Research Program Overview

- Performance Evaluation and Optimization
- Shared, Connected, and Autonomous Vehicles
- Environment, Energy, Health, and Transportation
- Logistics and Goods Movement
- Transportation Equity
- Transportation, Land Use, and Housing
- Translational Research



44 Projects Selected
To Date



SB 1 UC ITS Milestones for 2018-19

- **January** - Meet with CalSTA Secretary, Chair of Assembly Transportation Committee, and Chair of Senate Transportation and Housing Committee
- **February** - BOA identifies research priorities
- **March** - Develop UC ITS website
- **April** - Release RFP to UC researchers
- **May** - Review proposals
- **June** - Select projects
- **August** - 2018-19 research starts
- **August to October** - 2017-18 research ends
- **October to January 2019** - Share results through forums, webinars, and briefings