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UNIVERSITY OF CALIFORNIA  
INSTITUTES OF TRANSPORTATION STUDIES

# Overview & SB 1 Research Program

March 21, 2018

**Stephen Ritchie**

Chair, UC ITS Council of Directors

Director, ITS-Irvine and

Professor of Civil and Environmental Engineering, UC Irvine

# 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.

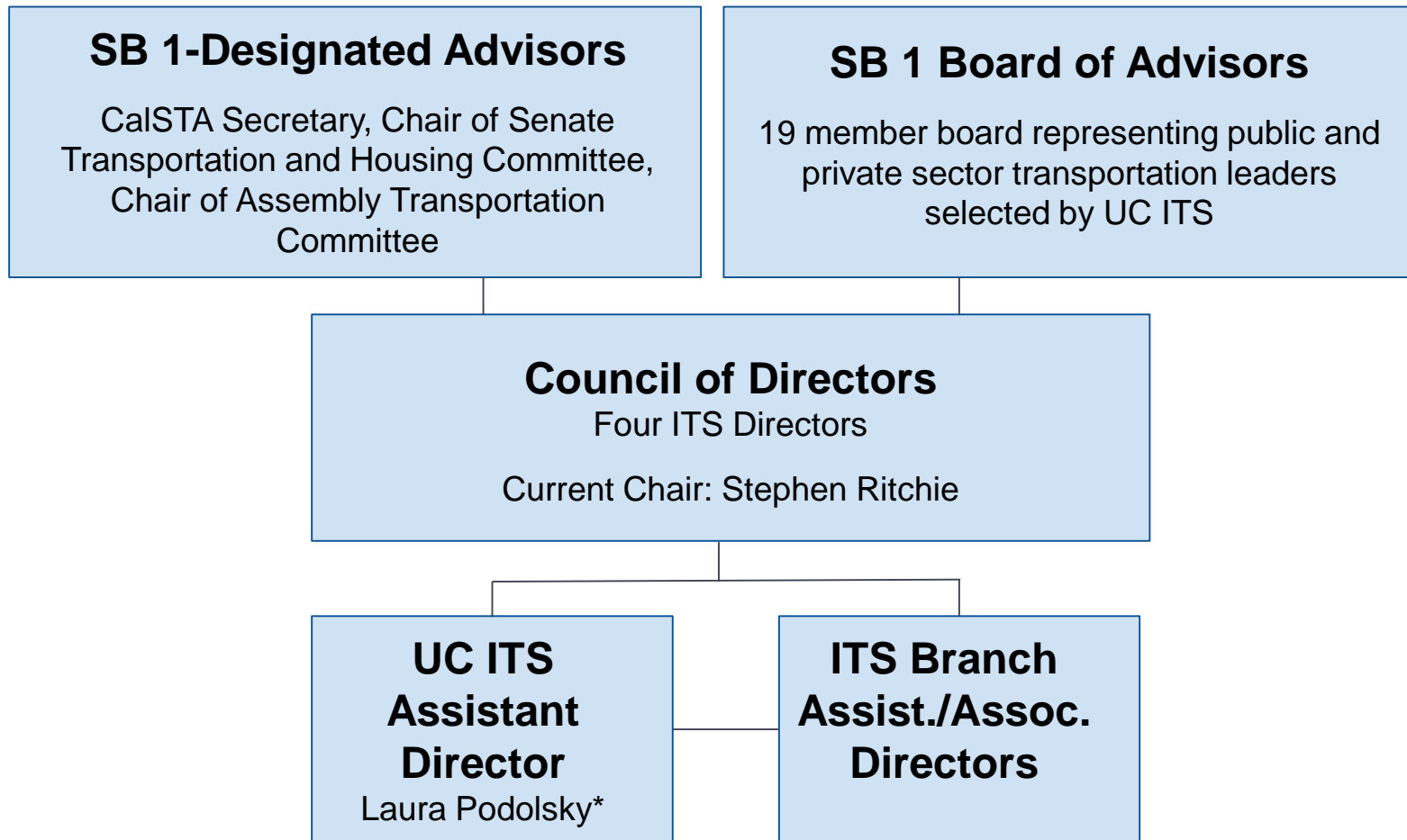
Host visiting researchers

- 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)



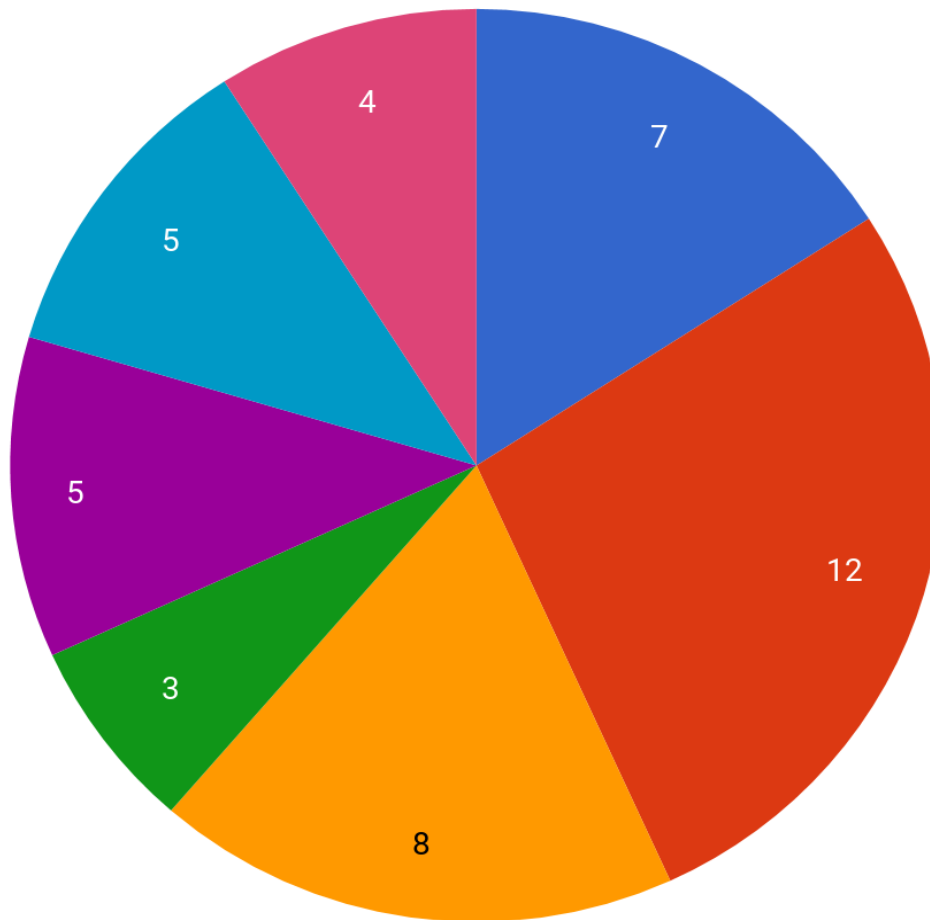
- Connected and Automated Transportation
- Data-Enabled Decision and Policy Making
- Greenhouse Gas and Oil Reduction
- Infrastructure Resilience: Disaster Management and Cybersecurity
- Mobility and the Sharing Economy
- Public Transit
- Sustainable Goods Movement
- Sustainable Transportation Funding
- 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