DRIVE AI

UC Berkeley Institute of Transportation Studies

Data • Robotics • Infrastructure • Vehicles • Electrification • Artificial Intelligence

DRIVING THE FUTURE

For over 75 years, UC Berkeley's Institute of Transportation Studies (ITS) has led global advances in transportation research, policy, and deployment. ITS is turning research into real-world impact.

Now, UC Berkeley is launching a new ecosystem at the intersection of artificial intelligence, mobility, and infrastructure.

The DRIVE AI Consortium

Anchored at the Richmond Field Station (RFS), a newly revitalized 175-acre living laboratory, DRIVE AI brings together companies, agencies, and researchers that will pilot, validate, and scale AI-enabled solutions for transportation.

AI is transforming transportation, but without coordination, efforts remain fragmented, uneven, and risky. DRIVE AI provides the platform to turn innovation into safe, scalable deployment.

The DRIVE AI Consortium is Berkeley's front door for agencies, industry, and researchers to:

- Pilot AI-driven technologies in real-world, instrumented test environments.
- Validate performance with transparent, reproducible methods.
- Access shared datasets, research outputs, and digital twin models.
- Collaborate in a neutral, pre-competitive environment.
- Shape governance and standards to guide national deployments.

Join us as founding partners in DRIVE AI for integrated access across testbeds, data pipelines, and statewide corridors.

Sign up for a campus tour and faculty introduction.

its.berkeley.edu/driveai

ITS unites faculty across nine disciplines and more than a dozen world-class centers, each shaping the systems we rely on today and tomorrow.

Partners for Advanced Transportation Technology (PATH)
Pioneers in automated vehicles, connected corridors, and traffic operations

Berkeley Deep DRIVE (BDD)
Advancing artificial intelligence and computer vision for autonomous driving

Smart Cities Research Center
Improves mobility and quality of life through advanced modeling of urban systems

Transportation Sustainability Research Center (TSRC)
Leaders in shared mobility, clean energy, and transportation electrification

Safe Transportation Research and Education Center (SafeTREC)
Improving road safety through data-driven research and policy

Air Mobility Research
Advancing aviation sustainability, economics, infrastructure, modeling safety, and aerospace engineering

UC Pavement Research Center (UCPRC)
Innovating pavement engineering and sustainable infrastructure

ITS TechTransfer
Translating research into practice via professional training and deployment

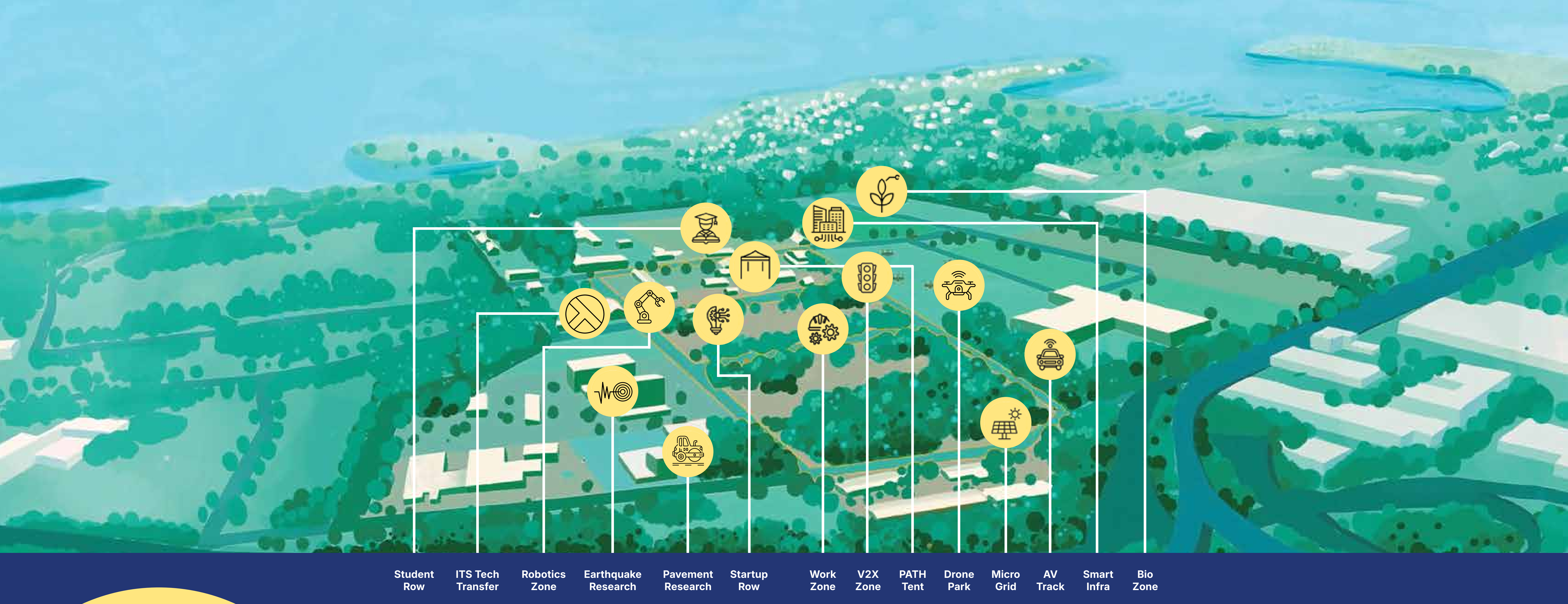
Berkeley Center for Smart Infrastructure
Advanced sensing, modeling, and testing of built infrastructure

This legacy of innovation sets the foundation for DRIVE AI

Building on the Berkeley Deep Drive legacy of advancing artificial intelligence and computer vision for autonomous driving, The DRIVE AI Consortium is UC Berkeley's new applied research hub for artificial intelligence in mobility and infrastructure.

Operated by the Institute of Transportation Studies and PATH, in partnership with the Contra Costa Transportation Authority and GoMentum Station, DRIVE AI activates the Richmond Field Station as a 175-acre living lab.

- **Autonomous Vehicles & Robotics**
  Testing, validating, and benchmarking AI-driven vehicles, delivery robots, and infrastructure .
- **Connected Digital Infrastructure (V2X)**
  Developing reproducible protocols for vehicle-to-everything systems, intersections, and corridors.
- **Electrification & Energy Systems**
  Advancing grid integration, charging infrastructure, and fleet-scale zero-emission deployments.
- **Multimodal Integration**
  Exploring how AI enables safe and seamless coordination across cars, trucks, buses, drones, and emerging AAM systems.



TESTBED: RICHMOND FIELD STATION

At the heart of DRIVE AI is a living laboratory: UC Berkeley's Richmond Field Station (RFS). Recently revitalized, RFS is a 175-acre applied research campus dedicated to testing, validating, and deploying the next generation of mobility technologies.

How It's Operated

TS Berkeley and PATH partner with the Contra Costa Transportation Authority (CCTA) and GoMentum Station, one of the nation's premier AV testing and deployment programs to ensure DRIVE AI pilots aren't just technically advanced — they're safe, credible, and scalable.

What's On Site

- **Autonomous Vehicle Test Track**
  A resurfaced, configurable roadway for AV testing, multimodal simulations, and corridor-scale demos.
- **Connected Intersection & V2X Lab**
  A fully instrumented intersection with vehicle-to-everything communications for testing safety-critical AI application.
- **Drone Park & Advanced Aviation Zone**
  FAA-aligned airspace for drones and advanced air mobility platforms, supported by indoor cages and operations facilities.
- **Energy & Electrification Infrastructure**
  Charging, grid-integration, and microgrid research facilities for zero-emission vehicles and fleets.
- **Co-Working & Prototyping Space**
  Offices, labs, and maker space for startups, students, and faculty to collaborate, test, and build side-by-side.
- **Digital Twin**
  A fully-featured digital twin of the AV Test Track and V2X Lab to enable rapid, remote testing before arriving on-site.

This is your invitation to join UC Berkeley as a founding partner — to pilot, validate, and scale technologies that will define the next century of mobility.

Membership Structure

Members join at tiered levels — from Bronze to Platinum — with increasing benefits, including:

- Seats on Steering Committees to help guide research and pilots.
- Early access to facilities, projects, and data pipelines.
- Participation in real-world pilots at Richmond Field Station, and across statewide corridors.
- Access to software tools, intellectual property, data sets and training programs.
- Recognition as a founding partner shaping the future of mobility.
- Exclusive interaction with faculty, researchers, and students at the forefront of technology.

Why Join Now?

The future of transportation is being defined today. Founding members will:

- Influence early priorities and pilot designs.
- Gain visibility as leaders in responsible AI adoption.
- Connect into a national ecosystem spanning agencies, industry, startups, and universities.

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