

Sustainability and Emerging Transportation Technology (SETT) 2020

Shaping the Future of Mobility

National Academies of Sciences, Engineering and Medicine

Arnold and Mabel Beckman Center
100 Academy Drive, Irvine, CA 92617

August 31 – September 2, 2020

Conference Overview and Scope

Utopia or dystopia? Transportation technologies (e.g., connected and automated vehicles) and new approaches to mobility (e.g., shared services) are advancing so rapidly that it can be difficult for policy makers to frame incentives, regulations, and market signals to promote all three pillars of sustainability: equity, the environment, and the economy. The **Sustainability and Emerging Transportation Technology (SETT) Conference on August 31 – September 2, 2020**, at the **NASEM Beckman Center in Irvine, California**, will address questions around how academics, policy-makers, the private sector, NGOs, and others can work together to shape new mobility solutions to benefit all users of our transportation systems.

The SETT 2020 conference will bring together researchers, practitioners, and policy-makers to discuss and debate the intersection of *sustainability and emerging transportation technologies* with a focus on solutions. As these terms are often used quite broadly, we define them here.

- **Sustainability** takes a holistic view of the “triple-bottom-line”, such as environmental, economic, and social factors. Technology should not create more problems than it solves, particularly with regards to social equity (i.e., accessibility, inclusiveness, safety, and security), economic efficiency (i.e., cost-effective and within people’s ability and willingness to pay) or environmental stewardship (i.e., reduced carbon pollution, and improved water and air quality).
- **Emerging transportation technologies** are those in early stages of adoption, deployed as “pilots,” or expected to come to market in the near-term. Examples include new mobility services (e.g., ridesharing, e-scooters), digital technologies (e.g., ridehailing apps, dynamic pricing, shared data exchanges, and payment platforms), connected and automated vehicles, transportation electrification, and autonomous goods delivery services (e.g., rolling robots, drones).

We invite you to submit an abstract for technical or poster sessions by **February 15, 2020**.

Call for Abstracts

We seek abstracts from researchers, practitioners, policymakers, and students from all around the world focused on emerging issues at the intersection of sustainability and transportation technologies. Additionally, we are interested in both the supply *and* demand side of mobility. Example topics include but are not limited to:

- Moving beyond car-centric cities
- Various mobility alternatives (Mobility-as-a-Service, shared mobility, micromobility, etc.)
- The evolution of public transportation and its integration with shared mobility
- The impact of emerging technologies on urban goods and freight movement
- Application of automation in transportation systems
- Sustainable mobility solutions for rural areas and small towns
- Decarbonization and vehicle-miles-traveled (VMT) reduction
- The role of mobility pricing in the future mobility landscape
- Data-driven social, economic, environmental impact analyses
- Balancing equity and efficiency when deploying emerging transportation technologies
- Energy-efficient mobility systems
- Transportation demand management
- Promotion of holistic sustainability outcomes
- Life-cycle environmental impacts of new technologies
- Impacts on urban and rural area planning and policymaking
- Policy implications of new technologies
- Advances in measurement and modeling
- Behavioral science applications and techniques
- Case studies and examples from practice, including decision-making approaches and impacts of regulation

Abstracts of up to **500 words** will be accepted in the following categories:

- Scientific/research abstracts
- Practitioner/policy/case study abstracts
- Student-led abstracts (sub-category of above - lead author must be a full- or part-time university student at the time of submission)

Each abstract will undergo a formal peer-review process and submitters will be notified of acceptance to the conference program by **March 31, 2020**. Accepted presentations will be assigned to either a technical **or** poster session. Highly-rated abstracts will be invited to submit full-length papers for a special issue of the [Transportation Research Record \(TRR\)](#) journal.

Submission Format

Proposals must be written in English and include name, affiliation, and contact information (email) for the corresponding presenter. Information about all co-authors must also be provided. To be considered for presentation, abstracts must be limited to 500 words, as well as:

- Identify the topic area the presentation will address;
- Describe how the subject of the presentation contributes to shaping the future of mobility; and

- Demonstrate that the subject to be presented is sufficiently advanced beyond untested new ideas or early work in progress. Consolidated results of recent projects or studies are preferred.

What are the Benefits of Being a Presenter?

SETT 2020 presenters will receive valuable professional exposure before convened international subject matter experts affiliated with TRB and other practitioner networks. As a presenter, your name, organization, profile image, and a brief biographical statement will be featured in the online conference program. Additionally, presenters receive a reduced registration rate.

To Submit an Abstract:

You may submit an abstract at the following link: [SUBMIT ABSTRACT](#)

How are Proposals Selected?

A technical selection committee, comprised of subject matter experts with a keen interest in end-user perspectives, innovative ideas, applied science and case studies, and an informed awareness of topic timeliness and relevancy to identified conference themes, will review and rate all abstracts accordingly.

Important Dates

- Open Call for Abstracts: December 6, 2019
- Close Call for Abstracts: February 15, 2020
- Notify Abstract Submitters: March 31, 2020
- Advanced Technical Program Available: May 1, 2020