

Transportation@MIT

In 2009, MIT researchers launched [Transportation@MIT](#), a partnership of MIT's School of Engineering, the Sloan School of Management, and the School of Architecture and Planning. Our purpose is urgent and impactful: to mobilize MIT's resources to transform global transportation systems and meet the needs of mobility and the environment in the 21st century. Representing 15 departments, our team of more than 240 faculty members engages in transportation-related research and pursues new multidisciplinary projects. This year, Transportation@MIT continued its efforts in three main areas: research, education, and community.

In the second year of a five-year project, the initiative is led by professor Emilio Frazzoli and funded by the National Research Foundation of Singapore. Designed to address challenges of future urban mobility, Transportation@MIT continued a comprehensive multi-year project on the productivity of US transportation systems with faculty and researchers from several MIT departments.

1.041 Transportation Systems Modeling, an undergraduate subject initiated on recommendations from our Transportation Education Committee, was offered for a second time and included students from civil, mechanical, and electrical engineering. This class contributes to concentrations in transportation for students pursuing flexible engineering undergraduate degrees. Additionally a new freight transportation systems and analysis graduate subject was offered by the Center for Transportation and Logistics this spring, with participating students from engineering and business. We are currently evaluating the potential for project-based subjects that will allow students to address major global transportation challenges in an interdisciplinary manner.

Our community was energized by many events organized in coordination with the Institute-wide MIT Transportation Club. Using seed funding and support from Transportation@MIT, the club has over 300 active members at the undergraduate and graduate levels. The club hosted its second transportation showcase, featuring student research and industry recruiters from 19 companies, and drawing over 250 attendees. This spring, the club initiated a "hack-a-thon" event in which students and professionals analyzed real transportation data from the Boston area and created applications for using the data in transportation systems. Co-sponsoring with the MIT Transportation Club, we also hosted 10 seminars on current academic and industry activities, representing projects at MIT, Harvard University, Google, the Carnegie Endowment for International Peace, and other organizations. Additionally, we hosted Paul Mascarenas, the chief technology officer of the Ford Motor Company, as part of the Transportation and Energy Distinguished Speaker Series.

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