

CCSIP Collaborative Event: Transforming Vehicle and Roadside Communications through Wireless Technologies—and Canada-California Collaboration

Wireless technologies have the potential to significantly improve many features of our automotive transportation system—from enhanced driver and passenger safety to the rapid delivery of information that allows travellers make informed choices, and advanced traffic-management techniques for road operators.

With support from CCSIP, researchers from the Université de Sherbrooke, University of California Berkeley Partners for Advanced Transit and Highways (PATH), University of Toronto, Stanford University and AUTO21 (a Canadian Network of Centres of Excellence in automotive innovation) are joining forces to accelerate the research, development and application of wireless technologies for transportation.

The multidisciplinary team will combine their broad expertise, resources and networks, and host two workshops that bring together research, technology and deployment stakeholders from both jurisdictions. This includes government officials with responsibility for the transport sector, such as the California Department of Transportation (Caltrans) and Transport Canada.

The objective: to develop a research and deployment action plan for wireless-enabled vehicle and roadside communication. Building on common priorities, the plan will focus on technology-based solutions for the transportation sector that minimize energy requirements and negative impacts on the environment.

Key outcomes of the workshop include the creation of a cooperative R&D agenda in automotive research, and advanced road transportation and vehicular technologies with high commercial potential. The exchange and training of graduate students and post-doctoral candidates will help to develop new expertise in this field, and increase downstream benefits to the Canadian and Californian automotive and transportation industries.

