



UTC Project Information – Cooperative Mobility for Competitive Megaregions (CM²)

Project Title	Planning for the Accelerated Build-Out of the Electric Vehicle Charging Infrastructure
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Funding Source(s) and Amounts Provided (by each agency or organization)	U.S. Department of Transportation: Other: Other:
Total Project Cost	
Agency ID or Contract Number	US DOT Grant Number: 69A3551747135
Start and End Dates	September 1, 2022 – September 30, 2023
Brief Description of Research Project	<p>This research focuses on a variety of challenges associated with the comprehensive deployment of charging infrastructure to accommodate the rapid adoption of electronic vehicles predicted over the next decade. We first conduct a systematic literature review to identify the types of demand for charging, barriers to expanding various forms of charging capacity (residential, commercial, stand-alone charging stations) and current policies at the federal, state and local levels to facilitate charging access. We next analyze the potential impact of recent federal initiatives and funding (under the Building a Better America legislation and related state, local and MPO plans related to these federal funding opportunities. Based upon this review we are specifically addressing the following research questions:</p> <ol style="list-style-type: none"> 1. What are the major challenges and opportunities to building high levels of charging access along intercity corridors (interstates and major state highways)? 2. How can institutional cooperation between local governments, electric utilities, private sector actors and MPOs be improved across MPO geographies? 3. How can public sector entities better address crucial equity issues associated with access to EV charging, especially in multifamily housing?

<p>Describe Implementation of Research Outcomes (or why not implemented)</p>	<p>The research team anticipates producing three project deliverables:</p> <ol style="list-style-type: none"> 1. A white paper incorporating a literature review and a systematic analysis of recent federal legislation and state plans related to the National Electric Vehicle Infrastructure (NEVI) Formula Program. 2. A research guide and review of best practices to achieve high levels of EV charging access along inter-city corridors. 3. A research guide and review of best practices on coordination between private and public sector institutions to expand equitable access to EV charging at the metropolitan level. <p>We further hope to craft these research products for publication in refereed journals.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>We believe that the elements of this research will provide important information and insights to transportation planning and local planning practitioners on how the build-out of the EV charging infrastructure can be accelerated to accommodate rapidly expanding demand</p>
<p>Web Links (to reports, project website, etc.)</p>	

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