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| UTC Project Information |
| Project Title | Quantifying the Environmental and Health Impacts of Curbside Management for Emerging Multi-modal Mobility Services |
| University | Center for Environmental Research & Technology, University of California at Riverside |
| Principal Investigator | Dr. Guoyuan Wu |
| PI Contact Information | gywu@cert.ucr.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTEEH): CARTEEH: $80,000Other Sources: $0 |
| Total Project Cost | $80,000 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | 02/01/2021 – 06/30/2022 |
| Brief Description of Research Project | The proposed research aims to investigate how curbside management strategies may help address traffic bottlenecks on roads and sidewalks due to intensive pick-up/drop-off (PUDO) activities, thus mitigating the environmental and health impacts on vulnerable road users (VRUs) resulting from vehicular emissions. In this project, the research team will develop an integrated simulation platform in SUMO to model the microscopic interactions between different modes, estimate the vehicular emissions and pollutant dispersion, quantify human exposure for VRUs, and determine the effectiveness of different curbside management strategies in terms of environmental and health impacts. The research team will use a case study to demonstrate the model capability.  |
| Describe Implementation of Research Outcomes (or why not implemented)Place Any Photos Here |  |
| Impacts/Benefits of Implementation (actual, not anticipated) |  |
| Web Links* Reports
* Project website
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