|  |  |
| --- | --- |
| UTC Project Information | |
| Project Title | Develop a performance metric to quantify the inhalation of traffic-related air pollutants at both mesoscale and macroscale |
| University | University of California, Riverside |
| Principal Investigator | Ji Luo |
| PI Contact Information | [ji.luo@ucr.edu](mailto:ji.luo@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: $80,000  Other Sources: $ 0 |
| Total Project Cost | $ 80,000 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | April 1, 2021 – June 30, 2022 |
| Brief Description of Research Project | The project proposes to develop a performance metric to quantify the inhalation of traffic-related air pollutants at both mesoscale (e.g., neighborhoods, cities) and macroscale (e.g., census tracts, metropolitan regions). The metric can assess the inhalation of specific primary traffic-related pollutants. The metric can be evaluated for a given population group (e.g., school children, stay-at-home residents, workforce), at a given microenvironment (e.g., indoor or outdoor), at a given time span (e.g., typical work day or summer season). The metric can be readily aggregated and disaggregated at user-defined dimension for different purposes. The metric can also reflect the influence of technology advancement (e.g., electric vehicles, connected and automated vehicles) and other game-change factors. |
| 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 |  |