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| **UTC Project Information** | |
| Project Title | Mitigation of Roadway Crashes in the Pacific Northwest through Coordinated K-9 Outreach |
| University | Oregon State University |
| Principal Investigator | Salvador Hernandez |
| PI Contact Information | sal.hernandez@oregonstate.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | University of Washington PacTrans $160,000  Oregon Department of Transportation $80,000  Washington State University $80,000 |
| Total Project Cost | $320,000 |
| Agency ID or Contract Number | DTRT13-G-UTC40 |
| Start and End Dates | December 16, 2016 – January 31, 2018 |
| Brief Description of Research Project | The proposed study will seek to uncover existing relationships between observed HOS on likelihood of safety critical events (SCE) and a set of potential confounding factors related to Time-of-Day (TOD). This will be accomplished through (1) a comprehensive existing state-of-the-art and state-of-the-practice as it relates to CMV parking behavior and choice and heterogeneity based methods, (2) perform commercial motor vehicle operator and shipper surveys, (3) conduct statistical analyses and mine current data collected from a stated preference survey, and Oregon and Washington crash data to determine potential factors, (4) conduct factor analyses and estimate and validate heterogeneity based models using the 2/3rd of data prepared and identified in (2) and (3) using advanced econometric software. Once the models have been estimated the stability of the coefficient estimates of the models will be validated using 1/3rd of set aside data. It’s envisaged that two journal manuscripts will result from this work, and (5) prepare a final report. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here |  |
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| Impacts/Benefits of Implementation (actual, or anticipated) |  |
| Web Links   * Reports * Project Website |  |