UTC Project Information	
Project Title	Understanding Freight Behavior in the Pacific Northwest: An Evaluation and Application of EROAD Data to Freight Demand and Forecast Modeling
University	Oregon State University
Principal Investigator	Salvador Hernandez
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Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans $25,000 Idaho Transportation Department $25,000
Total Project Cost	$50,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	August 16, 2017 – August 15, 2019
Brief Description of Research Project	In summary, this research's objective will be achieved through the application of a private data source acquired as part of an ongoing study with EROAD.[1] EROAD is a company that develops and implements technology to modernize traditional paper-based systems within the trucking industry. As part of this modernization, EROAD collects the data used for modeling and forecasting freight movements. However, EROAD data has yet to be used for such an application. This will be accomplished through (1) a comprehensive existing state-of-the-art and state-of-the-practice as it relates to freight data, both in terms of analysis and collection, (2) a massage of EROAD data and conduct statistical analyses for freight movement analysis, and (3) identify freight movements and detailed supply-chain analyses of key commodities. It's envisaged that two journal manuscripts will result from this work.

1 http://www.eroad.com/us/company/

Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The project outcomes have been implemented and utilized by the Idaho Department of Transportation (ITD) study FHWA-ID-19-272 on capturing freight movements originating, ending and passing through the state and an improved understanding of the key freight supply-chains supporting Idaho's economy. This has led to additional interest from the USDA's Transportation & Marketing Program.
Impacts/Benefits of Implementation (actual, or anticipated)	This research project has led to an additional study that has been awarded by ODOT, SPR821 "Develop New Methods to use ODOT Weigh-in-Motion Data for Predicting Freight Flow and/or Commodity Patterns" awarded Sept 2018. This has led to additional interest and recent proposal submission to the USDA's Transportation & Marketing Program.
Web Links • Reports • Project Website	