

UTC Project Information	
Project Title	The Long-Term Effect of Earthquakes: Using Geospatial Solutions to Evaluate Heightened Rockfall Activity on Critical Lifelines
University	University of Alaska
Principal Investigator	Margaret Darrow
PI Contact Information	margaret.darrow@alaska.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$180,000 University of Washington \$60,000 Oregon State University \$60,000 University of Alaska \$60,000
Total Project Cost	\$360,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	September 01, 2020-August 31, 2022
Brief Description of Research Project	<p>This PacTrans project will analyze the datasets collected from previous research efforts, and to answer the following research questions:</p> <p>(1) What was the “baseline” rockfall activity at the study sites, and how did this vary (if at all) with fluctuations in local climate conditions?</p> <p>(2) What are the mechanisms and factors that govern rockfall both during and after the event; how, if at all, do these vary from the pre-earthquake activity?</p> <p>(3) How soon after the earthquake does rockfall activity and magnitude return to baseline conditions?</p> <p>(4) How is this influenced by short-term local weather conditions during this period of “recovery”?</p> <p><i>Answering these questions is critical for transportation agencies to plan for and allocate resources optimally to address maintenance needs for rock debris removal and slope mitigation, thus ensuring efficient mobility of the transportation network.</i></p>

<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	
<p>Impacts/Benefits of Implementation (actual, or anticipated)</p>	
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project Website	