

UTC Project Information	
Project Title	Safety Evaluation of Statewide Off-Highway Vehicle Use in Alaska
University	University of Alaska
Principal Investigator	Nathan Belz
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Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$60,000 Alaska Department of Transportation \$60,000
Total Project Cost	\$120,000
Agency ID or Contract Number	DTRT13-G-UTC40
Start and End Dates	December 16, 2016 – January 31, 2018
Brief Description of Research Project	Standard measures of risk and conflict, as well as design guidelines for off-highway vehicle users near the traveled way (e.g., all-terrain vehicles, dog sleds, and snow machines) are not well established from a rural safety perspective. There is a need for statewide assessment of conflicts between these users and traditional roadway users. This should include: crash history review, main corridors of travel, and identification of both safety and usage thresholds that would merit the consideration of how to minimize conflicts for certain rural highway characteristics. These methods and outcomes will quantify concerns and lack of data for non-urban areas such as road/trail crossings, or authorized travel at bridges. The State of Alaska currently has a Department policy to not prohibit their travel within the off-pavement area, but does not currently design or address crossings or other conflicts when users approach the vehicle space/traveled way.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	This research contributes to the larger effort of promoting safe use and travel on roads in the Pacific Northwest. A low-cost and semi-automated method of quantifying use of off-highway vehicles on public roadways was developed. Collaboration with AKDOT continues on related efforts and addition locations are being studied using the methodology and equipment developed during this research.



Main Advanced Options App Progress

Required Inputs

Choose Input Video Folder None selected <input type="button" value="Browse"/>	Choose Output Folder None selected <input type="button" value="Browse"/>	Name of Testing Location <input type="text"/>
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Optional Inputs

Masking Required? No <input type="checkbox"/> Yes <input type="checkbox"/>	Display Object Frame? No <input type="checkbox"/> Yes <input type="checkbox"/>
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Masking Setup (If Enabled)

Choose Sample Video Choose video file with good view of recorded path area <input type="button" value="Browse"/>	<input type="button" value="Set Mask Area"/>	<input type="button" value="Display Sample Masked Image"/>
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<p>Impacts/Benefits of Implementation (actual, or anticipated)</p>	<p>The results of this study are likely to identify opportunities to reduce serious and fatal incidents involving all-terrain vehicles and snowmachines that occur in Alaska. The counting program and crash/injury analysis help improve current methodologies and address key issues identified in the Alaska Strategic Highway Safety Plan.</p>
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project Website	<p>https://digital.lib.washington.edu/researchworks/handle/1773/43585</p>