

<b>UTC Project Information</b>	
Project Title	MPC-637 – Assessing and Improving Efficiency of Snowplowing Operations via Data and Analytics
University	University of Utah
Principal Investigator	Nikola Markovic, Ph.D. Cathy Liu, Ph.D.
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Funding Source(s) and Amounts Provided (by each agency or organization)	<p>USDOT, Office of the Assistant Secretary for Research and Technology \$40,000</p> <p>Utah Department of Transportation \$50,000</p>
Total Project Cost	\$90,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	October 30, 2020 to July 31, 2022
Brief Description of Research Project	The core objective of this research is to improve the efficiency of UDOT's snowplowing operations. First, we will leverage GPS and GIS data to evaluate the current efficiency of UDOT's operations. Second, we will seek to improve the plowing operations with the existing resources. This will be achieved by optimizing snowplow routes and salt dome locations. These improvements are expected to reduce turnaround time by 5% to 10%. Lastly, we will develop a software to allow UDOT to efficiently manage state's plowing operations.
Describe Implementation of Research Outcomes (or why not implemented)	
Place Any Photos Here	
Impacts/Benefits of Implementation	

(actual, not anticipated)	
Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project Website</li></ul>	